TOC Two Color.fm Page i Tuesday, July 25, 2006 2:51 PM

Table of Contents

Important Safety Precautions v

1 Introduction

WELCOME 2
HOW TO USE THIS GUIDE 2
ABOUT YOUR DISH NETWORK ACCOUNT 4
WATCHING TV NOW 5
ADDITIONAL SERVICES 6
ABOUT SATELLITE TV RECEPTION 6
WHY CONNECT TO A PHONE LINE 7
MOVING LOGO 7

2 Receiver and Remote Controls

SATELLITE RECEIVER OVERVIEW 10
DUAL AND SINGLE MODES 11
REMOTE CONTROLS 14
SATELLITE RECEIVER FRONT PANEL 19
SATELLITE RECEIVER BACK PANEL 19
USING THE MENUS 20
USING TEXT FIELDS 22

TOC Two Color.fm Page ii Tuesday, July 25, 2006 2:51 PM

Table of Contents

3 Finding Programs to Watch

CHANGING CHANNELS 26
USING THE PROGRAM GUIDE 26
USING THE BROWSE BANNER 28
USING SEARCH TO FIND A PROGRAM 29
FINDING A PROGRAM BY ITS THEME 30
USING PICTURE-IN-PICTURE 30

4 Pay-Per-View

BUYING A PAY-PER-VIEW PROGRAM 34
REVIEWING PAY-PER-VIEW PURCHASES 34

5 Favorites Lists

WHAT ARE FAVORITES LISTS? 38
CREATING OR CHANGING FAVORITES LISTS 39
NAMING FAVORITES LISTS 39
USING FAVORITES LISTS 39

6 Parental Controls

WHAT ARE PARENTAL CONTROLS? 42
CREATING OR CHANGING A PASSWORD 43
LOCKING AND UNLOCKING YOUR RECEIVER 43
CREATING OR CHANGING RATINGS LOCKS 44
CREATING OR CHANGING CHANNEL LOCKS 45
LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS 45
HIDING ADULT CONTENT OR LOCKED CHANNELS 46
LOCKING OR UNLOCKING THE FRONT PANEL 47

TOC Two Color.fm Page iii Tuesday, July 25, 2006 2:51 PM

7 Interactive TV

DISHHOME 50
CUSTOMER SUPPORT 50

8 Timers

TIMERS 52
USING THE TIMERS LIST 54
SETTING UP AN AUTOMATIC TIMER 54
SETTING UP A MANUAL TIMER 55
DELETING A TIMER 56
OVERLAPPING TIMERS 56

9 Remote Control Setup

IMPROVING RECEIVER CONTROL 58
CONTROLLING OTHER COMPONENTS 61
THE RECOVER BUTTON 68
SENDING DISCRETE POWER ON AND OFF 70

10 Receiver Customization

USING SHARED VIEW 74
MODULATOR SETUP 74
USING CALLER ID 75
CHANGING LANGUAGES 76
USING CLOSED CAPTIONING 77
USING DOLBY® SURROUND SOUND 78
CHANGING THE PROGRAM GUIDE ORDER 79
CHANGING THE GUIDE DISPLAY 79
RESETTING TO FACTORY DEFAULTS 80
SCHEDULING RECEIVER UPDATES 81
INACTIVITY STANDBY 81

TOC Two Color.fm Page iv Tuesday, July 25, 2006 2:51 PM

11 Connections and Setup

CONNECTING TO THE NEARBY TV (TV1) 84
CONNECTING TO THE REMOTE TVS (TV1 OR TV2) 87
CONNECTING TO YOUR DISH ANTENNA 91
CONNECTING THE PHONE LINE 92
CONNECTING A VCR TO THE REMOTE TV 94
CONNECTING OVER-THE-AIR ANTENNA 95
USING TROUBLESHOOTING TOOLS 100

Reference

TROUBLESHOOTING TABLES 104
REMOTE CONTROL DEVICE CODES 116

Appendix 119

Index 129

222.book Page v Tuesday, July 25, 2006 1:30 PM

Safety

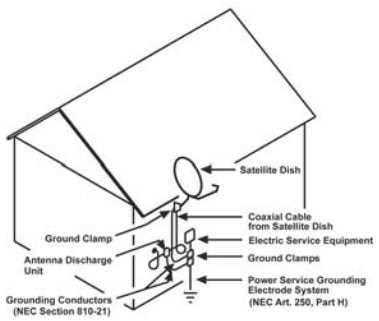
Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

222.book Page vi Tuesday, July 25, 2006 1:30 PM

Note to Satellite TV System Installer: This reminder is provided to call the satellite TV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.


Satellite Dish
Coaxial Cable from Satellite Dish
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art. 250, Part H)
Ground Clamp
Antenna Discharge Unit
Grounding Conductors (NEC Section 810-21)

- Operate the receiver using only the type of power source indicated on the marking label. Unplug the receiver power cord by gripping the power plug, not the cord.
- Do not overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.
- Never insert objects of any kind into the receiver through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- Do not locate the antenna near overhead light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.
- Do not attempt to service the receiver yourself, as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Refer all servicing to authorized service personnel.

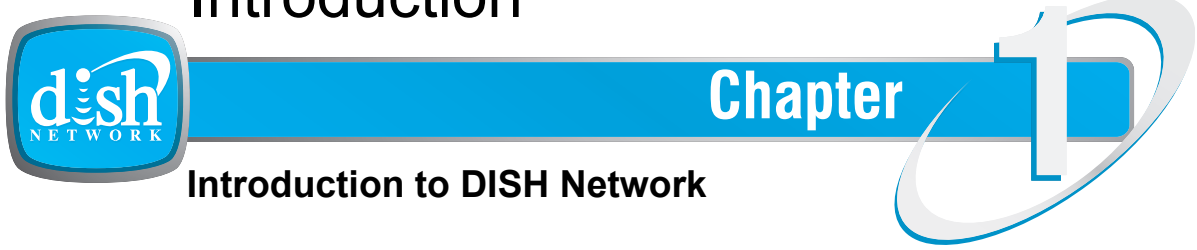
Proper Care of Your Equipment

- Always handle the satellite receiver carefully. Avoid excessive shock and vibration at all times as this can damage the hard drive.
- Unplug the receiver from the AC power outlet before cleaning.
- If you have the receiver turned on and need to move it, be sure to unplug the receiver and let it sit for at least 30 seconds before moving it.
- The use of accessories or attachments not recommended by the receiver manufacturer will void the Limited Warranty.
- Do not place the receiver in an enclosure such as a cabinet without proper ventilation.
- Do not stack the receiver on top of or below other electronic devices as this can cause heat build-up and vibration.
- Do not install the receiver in any area where the temperature can be less than 40°F or more than 113°F. If the receiver is cold to the touch, do not plug it in immediately. Let it sit unplugged at room temperature for at least 45 minutes before plugging it in.
- Use an outlet that contains surge suppression or ground fault protection. For added protection during a lightning storm, or when the receiver is left unattended and unused for long periods of time, unplug the power cord from the wall outlet, disconnect the lines between the receiver and the antenna, and disconnect the telephone line. This will provide some protection against damage caused by lightning or power line surges.

On some TVs, the presence of fixed images for extended periods of time may cause them to be permanently imprinted on the screen. Consult your TV user guide for information on whether this is a problem for your TV, what operating/viewing restrictions apply to avoid this problem, and associated TV warranty coverage.

Chapter 01 Two Color.fm Page 1 Tuesday, July 25, 2006 2:58 PM

Introduction



Introduction to DISH Network

So you bought yourself a new receiver and you want to know how it works, right? Take a look through this guide and you'll quickly learn how to use all of the features. This chapter familiarizes you with your DISH Network satellite TV receiver.

- WELCOME
- HOW TO USE THIS GUIDE
- ABOUT YOUR DISH NETWORK ACCOUNT
- WATCHING TV NOW
- ADDITIONAL SERVICES
- ABOUT SATELLITE TV RECEPTION
- WHY CONNECT TO A PHONE LINE

Chapter 01 Two Color.fm Page 2 Tuesday, July 25, 2006 2:58 PM

Chapter 1

Welcome

WELCOME

Thank you for choosing DISH Network. You are about to experience the excitement and convenience of our Direct Broadcast Satellite (DBS) service, which delivers the very best picture and sound quality. DISH Network consistently provides the latest products and satellite-delivered services — with high performance, ease of operation, and a wide variety of entertainment options.

HOW TO USE THIS GUIDE

This section explains how the guide is divided and the conventions used throughout.

Guide Overview

The information in this guide is separated into several chapters to make it easy for you to find exactly what you're looking for:

- *Chapter 1 - Introduction* gives you a brief overview of DISH Network and your new receiver.
- *Chapter 2 - Receiver and Remote Controls* explains the basic features of your system and how to use the remote controls, front panel buttons, and back panel connections.
- *Chapter 3 - Finding Programs to Watch* describes how to change channels and look for programs.
- *Chapter 4 - Pay-Per-View* shows you how to order and watch Pay-Per-View programs.
- *Chapter 5 - Favorites Lists* explains how to create, name, and use favorites lists.
- *Chapter 6 - Parental Controls* explains how to set locks and passwords.
- *Chapter 7 - Interactive TV* describes how to use the Dish**HOME** Interactive TV features of your satellite TV system.
- *Chapter 8 - Timers* shows you how you can record and play back your favorite programs when you want to watch them.
- *Chapter 9 - Remote Control Setup* contains instructions for programming your remote to control your satellite receiver and equipment like a TV or VCR.
- *Chapter 10 - Receiver Customization* shows you how to customize your receiver.
- *Chapter 11 - Connections and Setup* explains how to connect your satellite receiver to your TV and equipment like a VCR.

Tips and Questions

At then end of most chapters, you'll find two important sections that are there to give you additional information:

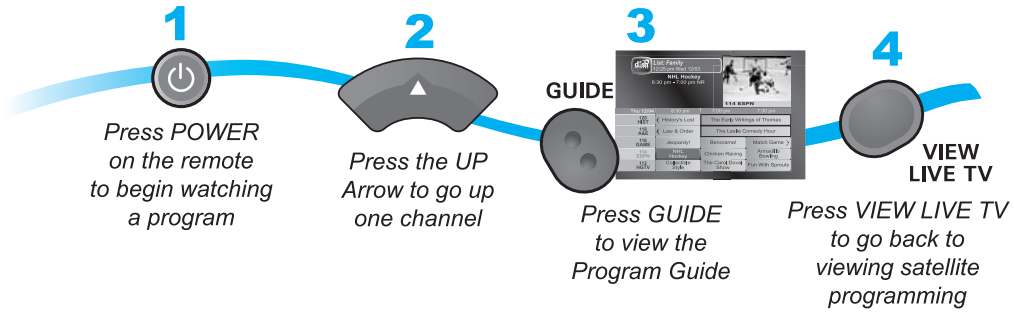
Tips that let you in on secrets of using your satellite TV system more efficiently.

Answers to **Questions** you might have about the features described in the chapter.

Chapter 01 Two Color.fm Page 3 Tuesday, July 25, 2006 2:58 PM

Guide Conventions

- The names of remote control buttons are all uppercase.
  Example: Press SAT.
- *Select* means to move the highlight to an on-screen option or choice in a list and press SELECT on the remote control.
  Example: Select the Locks option.
- Where this guide mentions *nearby TV*, it refers to the TV near the receiver. The nearby TV receives TV1 menus and programming from the receiver's TV1 outputs and is connected using short audio/video cables.
- Where this guide mentions *remote TV*, it refers to the cable-ready TV(s) located in rooms away from the receiver. The remote TV receives TV2 menus and programming from the receiver's TV2 outputs through your in-home cable system.
- Where this guide mentions *remote control*, it refers to either Remote Control 1 when viewing a nearby TV or Remote Control 2 when viewing the remote TV(s). If a specific remote control must be used, this guide will refer directly to Remote Control 1 or Remote Control 2.
- The instructions in this guide are shown in two ways:
  - Instructions in the form of pictures are handy if you'd like to learn something quickly. These instructions are numbered left to right as shown in the sample below.
  - Instructions that are written out are helpful if you'd like to learn more details.


1
Press POWER on the remote to begin watching a program
2
Press the UP Arrow to go up one channel
3
GUIDE
Press GUIDE to view the Program Guide
4
VIEW LIVE TV
Press VIEW LIVE TV to go back to viewing satellite programming

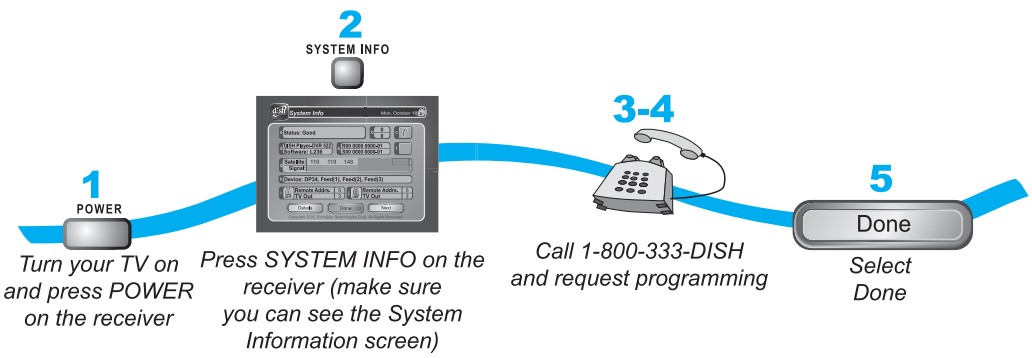
Chapter 01 Two Color.fm Page 4 Tuesday, July 25, 2006 2:58 PM

About Your DISH Network Account

This section describes how to order your packages and provides information on how to find information about your DISH Network account.

Ordering Your Programming Packages

Before you can enjoy your new receiver, order your programming packages.



1. Press POWER on the front panel to turn on the receiver.
2. Press SYSTEM INFO on the front panel to display the receiver's System Information menu on the nearby TV screen.
3. Call 1-800-333-DISH (3474) and tell the Customer Service Center the system has been installed and you would like to begin receiving services. A representative will explain the available program packages. Give the representative information from the System Information screen, as requested.
4. Your services will be turned on via the satellite signal. This process usually takes just a few minutes.
5. Select DONE.

Where to Find Information on Your Account

If you want to know about charges to your DISH Network account or if you would like to make changes to your programming packages, be sure to have your account information handy and choose one of the following:

- Go to our website at www.dishnetwork.com/my account.
- Press MENU on your remote control to open the Main Menu and then select Customer Support.
- Call DISH Network by calling 1-800-333-DISH (3474).

Note: Additional authorization may be required before high definition programming and/or over-the-air broadcasts can be viewed; additional fees may apply.

Chapter 01 Two Color.fm Page 5 Tuesday, July 25, 2006 2:58 PM

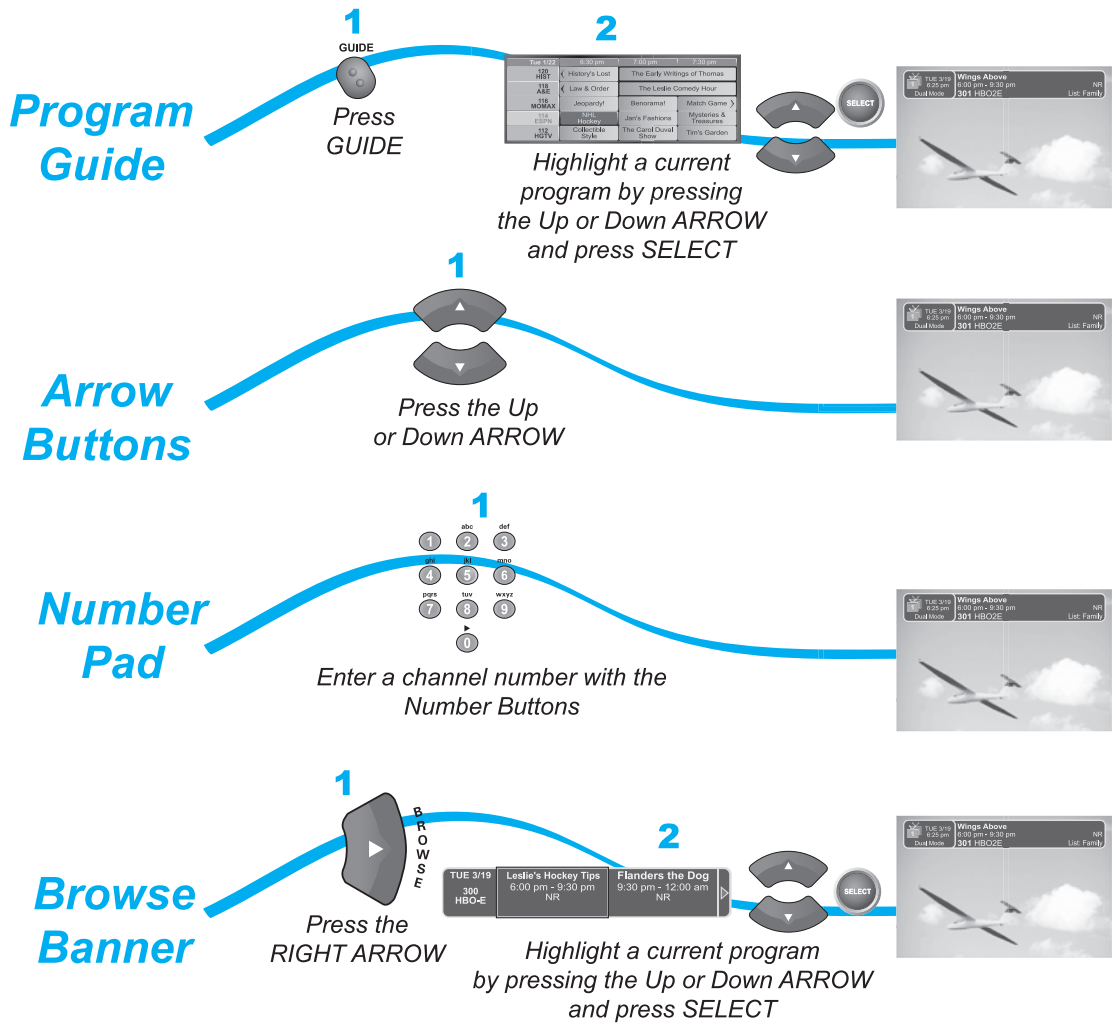
WATCHING TV NOW

After you have ordered your programming package, you can begin enjoying the features of your new satellite TV receiver. When you complete these simple tours, you'll be familiar with the remote control and be able to find a program to watch; pause live TV; and record your favorite shows.

Finding a Program to Watch

You're already itching to use your remote control, so pick it up now and find something to watch. If you want to know more about watching TV, see *Chapter 3 - Finding Programs to Watch* starting on page 25.

4 Ways to Find a Program



Chapter 01 Two Color.fm Page 6 Tuesday, July 25, 2006 2:58 PM

Additional Services

Pay-Per-View

Catch all the action on Pay-Per-View. Take a break from regular TV and order the latest movies, sports, and special events. For details on ordering Pay-Per-View events, see page 33. Be sure to connect an active phone line to your receiver before you order a Pay-Per-View event (see the instructions on page 92).

DishHOME

At Dish**HOME** (press DISH on your remote control), you'll find news, sports scores, weather information, TV and movie buzz, customer service, games, and more.

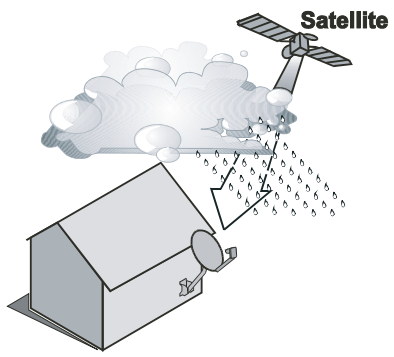
About Satellite TV Reception

Satellite television uses satellites in a stationary orbit over the Earth to deliver television and audio programming. This type of orbit enables the satellites to stay aligned over one place on the surface of the Earth. Once the satellite dish is aimed at the satellite, the dish does not have to move to follow it.

Here's something interesting! Noted science fiction author Arthur C. Clarke calculated the orbit that causes satellites to remain stationary in the sky. To this day the 22,000 mile high orbit bears the name Clarke Belt.

Rain and Snow Fade

Heavy rain, snow, or dense cloud cover can reduce the satellite signal, which may interrupt your programming service. Your service will return after the weather condition has passed. Aiming the satellite dish to get the strongest signal during installation, will help prevent rain and snow from interrupting the signal.

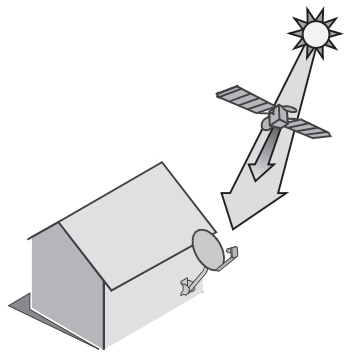


Chapter 01 Two Color.fm Page 7 Tuesday, July 25, 2006 2:58 PM

Solar Interference

Twice a year, the sun moves to a position behind the DISH Network satellite as it orbits the Earth. This event occurs during a few days at the beginning of the spring and the beginning of the autumn and lasts only a few minutes.

During these brief periods, you will not be able to see programs on DISH Network. When the sun has moved from behind the satellite, the programs will reappear. This is an unavoidable natural event for all television involving the use of satellites and has an adverse effect on many program providers.



Why Connect to a Phone Line

Your satellite receiver is equipped with a standard telephone jack that you use to connect to an active telephone line. Keep the receiver connected to an active telephone line so that you will be able to order pay-per-view programs using your remote control, use all of the Dish**HOME** Interactive TV features, and other services from DISH Network (see the instructions on page 92).

Moving Logo

Whenever the receiver is turned off using the remote control or front panel POWER button, you will see the DISH Network logo moving around on your TV screen. This feature is included with your receiver to assure you that the connections between your receiver and TV(s) are not lost. Press POWER or SELECT on the remote control to resume watching satellite TV programming.

Chapter 01 Two Color.fm Page 8 Tuesday, July 25, 2006 2:58 PM

TIPS

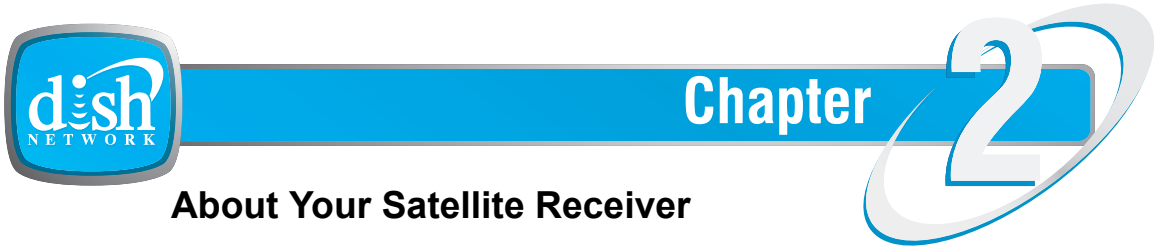
- **Always have the latest software** - Turn off the receiver when you're not using it.
- **Order Pay-Per-View with your remote control** - Keep an active phone line connected to the receiver. Not only will you have Pay-Per-View at your fingertips, but you'll also avoid unnecessary charges.

QUESTIONS

- **How do I find something to watch?** Refer to page 5. For more information on finding something to watch, see *Chapter 3 - Finding Programs to Watch*.
- **Why are some of the channels red in the Program Guide?** The channels that are red in the Program Guide are those which are not currently in your subscription. If you'd like to watch those channels, call 1-800-333-DISH (3474) or go to www.dishnetwork.com.
- **I'm looking at program information in a guide I bought at the grocery store, but nothing matches what's on my DISH Network receiver, is something wrong?** No. DISH Network programming may vary from what you'll find in a local publication. For best results, use the Program Guide on your receiver or order *DISH Entertainment*.

Chapter 02 Two Color.fm Page 9 Tuesday, July 25, 2006 3:02 PM

Receiver and Remote Controls



About Your Satellite Receiver

This chapter helps you get to know your remote control, which lets you use all the functions of your receiver. After you read the information here, be sure to practice what you learn so that you can quickly understand what's presented in later chapters.

What you'll find in this chapter:

- SATELLITE RECEIVER OVERVIEW
- DUAL AND SINGLE MODES
- REMOTE CONTROLS
- SATELLITE RECEIVER FRONT PANEL
- SATELLITE RECEIVER BACK PANEL
- USING THE MENUS
- USING TEXT FIELDS

Chapter 02 Two Color.fm Page 10 Tuesday, July 25, 2006 3:02 PM

SATELLITE RECEIVER OVERVIEW

This section gives you an overview of your DISH Network satellite TV receiver system.

Satellite Receiver

Use this dual-tuner satellite receiver to watch different programs in two locations:

- Nearby TV (TV1) - Programming from the receiver is delivered to the nearby TV using short audio/video cables.
- Remote TV(s) (TV2) - Programming from the receiver is delivered to the remote TV(s) using existing in-home coaxial cable.

Remote Controls

Two remote controls come with your receiver:

- Remote Control 1 - An Infrared (IR) remote to control programming for the nearby TV (TV1). This remote is labeled with a green number 1, which matches similar markings on the receiver output connections and the menus for the nearby TV.
- Remote Control 2 - An Ultra-High Frequency Pro (UHF Pro) remote to control programming at a remote TV (TV2). This remote is labeled with blue number 2, which matches similar markings on the receiver output connections and the menus for the remote TV. Be sure to set up the remote to control the receiver (see page 58).

Chapter 02 Two Color.fm Page 11 Tuesday, July 25, 2006 3:02 PM

2

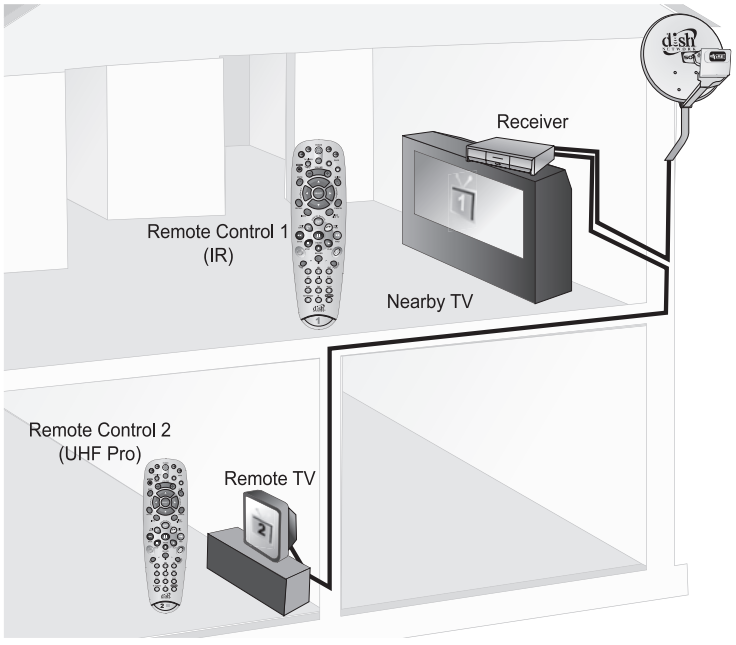
DUAL AND SINGLE MODES

Your satellite receiver includes two modes of operation: Dual and Single. These modes increase your entertainment options because you'll be able to choose how you watch your favorite programs.

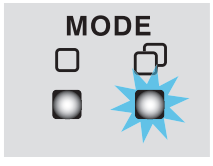
Dual Mode

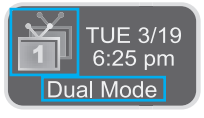
While in Dual Mode, you can use this dual-tuner satellite receiver to watch different programming in two separate locations:

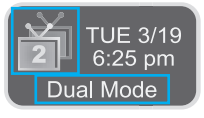
- Nearby TV - Programming from the receiver is delivered to the TV near the receiver using short audio/video cables and is controlled using Remote Control 1. The Nearby TV is also referred to as "TV1."
- Remote TV - Programming from the receiver is delivered to a TV located in another room using existing in-home coaxial cable and is controlled using Remote Control 2. The video displayed on the remote TV is always in standard definition (SD). The Remote TV is also referred to as "TV2."



You can tell your receiver is in Dual Mode because the Mode front panel indicator will light and the menu and other screens will display Dual Mode (as shown below).





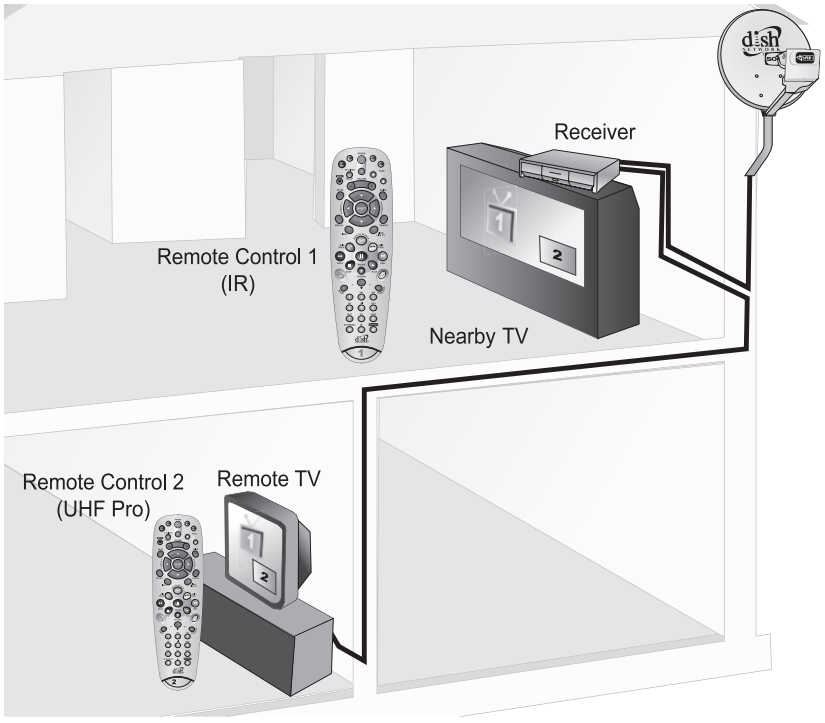


Chapter 2

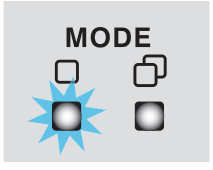
Dual and Single Modes

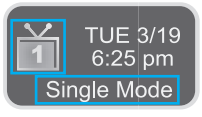
Single Mode

Single Mode provides dual-tuner receiver features—like Picture-in-Picture (PIP)—to all connected TVs.



Single Mode delivers the same programming to all of the TVs connected to the satellite receiver and allows this programming to be controlled by either remote control. The format of the programming shown on the remote TV(s) is standard definition (SD) and high definition (HD) is shown only on the nearby TV. You can tell you are in Single Mode because the Mode front panel indicator will light and the menus and other screens will display Single Mode (as shown below).





Chapter 02 Two Color.fm Page 13 Tuesday, July 25, 2006 3:02 PM

Switching Between Dual and Single Mode

Put the satellite receiver in Single or Dual Mode by pressing the front panel MODE button. Keep the following items in mind when switching the satellite receiver between Dual and Single Mode:

	Dual Mode	Single Mode
Indications	Dual Mode front panel indicator lights.	Single Mode front panel indicator lights.
Favorites Lists	Favorites Lists set up for both outputs (TV1 and TV2) are available.	Only Favorites Lists set up for TV1 are available. The lists for TV2 are not lost, they are simply unavailable in Single Mode.
Parental Controls	Parental Controls set up for both outputs (TV1 and TV2) are available.	Parental Controls set up for only TV1 are available. The Parental Controls for TV2 are not lost, they are simply unavailable in Single Mode.
Closed Captioning	Closed Captioning (CC) from SD and HD programming is available on TV1. CC is available on TV2 only when enabled on the TV).	CC from the receiver is available on both outputs (TV1 and TV2).

Note about changing from Dual to Single Mode: If someone is using the TV2 outputs in Dual Mode, you will see a popup on the nearby TV warning you that you are about to disrupt the use of the TV2 outputs.

Chapter 02 Two Color.fm Page 14 Tuesday, July 25, 2006 3:02 PM

REMOTE CONTROLS

The two remote controls give you access to all the features of your satellite receiver. You can set up each remote to control the satellite receiver and up to three other devices (see page 61). These devices can be a TV, a VCR or DVD player, and a third device.

This section describes how to use the various features on the two types of remote controls included with your satellite TV system.

Types of Remote Controls

Remote Control 1 uses infrared (IR) signals to:

- Control TV1 menus for the nearby TV in Dual Mode.
- Control the satellite receiver in Single Mode.

IR signals travel only short distances (60 feet or less), and cannot go through walls or other solid objects. You must point the remote control directly at the device, with no objects blocking the line of sight.

Remote Control 1 uses IR signals to control both the receiver and other devices programmed into the remote.

This remote control is identified by the green number 1 at the bottom of the remote control.

Remote Control 2 uses UHF Pro signals to:

- Control TV2 menus for the remote TVs in Dual Mode.
- Control the satellite receiver in Single Mode.

UHF Pro signals travel long distances and go through walls and other solid objects.

To use Remote Control 2 to control the receiver, you must attach the UHF antenna to the receiver back panel (see page 15).

Remote Control 2 uses IR signals to control other devices programmed into the remote. You must point the remote control directly at these devices, with no objects blocking the line of sight.

This remote control is identified by the blue number 2 at the bottom of the remote control.

Chapter 02 Two Color.fm Page 15 Tuesday, July 25, 2006 3:02 PM

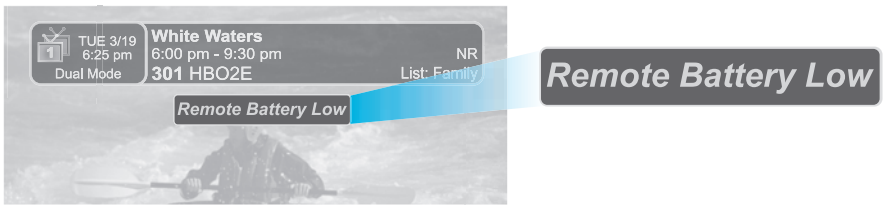
Remote Control Batteries

The remote control comes with AAA batteries. When you replace old batteries, you should replace all of the batteries. Use batteries of the same kind, for example, alkaline or carbon zinc. Don't mix batteries of different kinds. Alkaline batteries last longer.

1. Press down on the top of the battery cover and slide the cover off.
2. Take out all of the old batteries.
3. Put the new batteries in. Make sure you match the plus ("+") ends with the plus markings on the battery case.
4. Slide the cover back into place.

Low Battery Warning

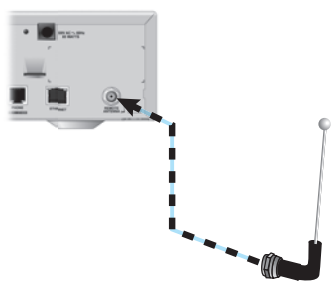
When you see a low battery warning message on your screen below the Program Banner, the batteries in your remote control are weak and need to be replaced.



Here's a helpful hint...Don't wait until you see this warning to change the remote control batteries. If your remote control doesn't seem to be working very well (for example, you have to press POWER more than once to turn the receiver on or off), it's a good indication that the batteries are getting weak.

Attach the Remote Antenna

Attach the UHF remote antenna to the receiver's back panel Remote Antenna input so you can use your UHF Pro Remote Control 2. Without the UHF antenna, you cannot use the remote to control the receiver. See *Adjusting the Remote Antenna* on page 60 for more detailed information about improving the performance of your UHF Pro remote control.



Chapter 2

Remote Controls

Remote Control Buttons

To use the features as described in this section, make sure you are in SAT mode by pressing the SAT Mode button. SAT

Receiver Power & TV Power

Top button turns the receiver on/off, **bottom button** turns TV on/off

Menu
Access receiver features and settings

Volume & Mute
Buttons Control TV Volume

Themes
Search for programs using Themes

Recall
Go back to last channel viewed

INFO
Get program information

Recover
Recovers satellite programming if your TV input or channel has changed

Picture-In-Picture (PIP) Buttons
Watch two separate programs at once

Number Buttons
Enter a channel number or select menu items

Page Buttons
Page up/down in menus and guides

Program Guide
Displays current and future program listings and information

Arrows/Select Buttons
Channel up/down, navigate through menus/guides and select options

Browse
See what is on other channels while watching TV

View Satellite Program
Exit out of any menu/guide and go back to watching a program

DISH
Explore interactive TV features

Search
Search for a program

Chapter 02 Two Color.fm Page 17 Tuesday, July 25, 2006 3:02 PM

To use the features as described in this section, make sure you are in TV mode by pressing the TV Mode button. TV

TV Power
Top & bottom button
turns TV on/off

TV/Video
Switch between TV inputs

TV Menu
Access menu features available on some TVs

Mute
Control TV volume on or off

Recall
Go back to last TV channel viewed

Picture-In-Picture (PIP) Buttons
Allows you to view two programs at the same time on some TVs

Number Buttons
Enter a channel number on TV

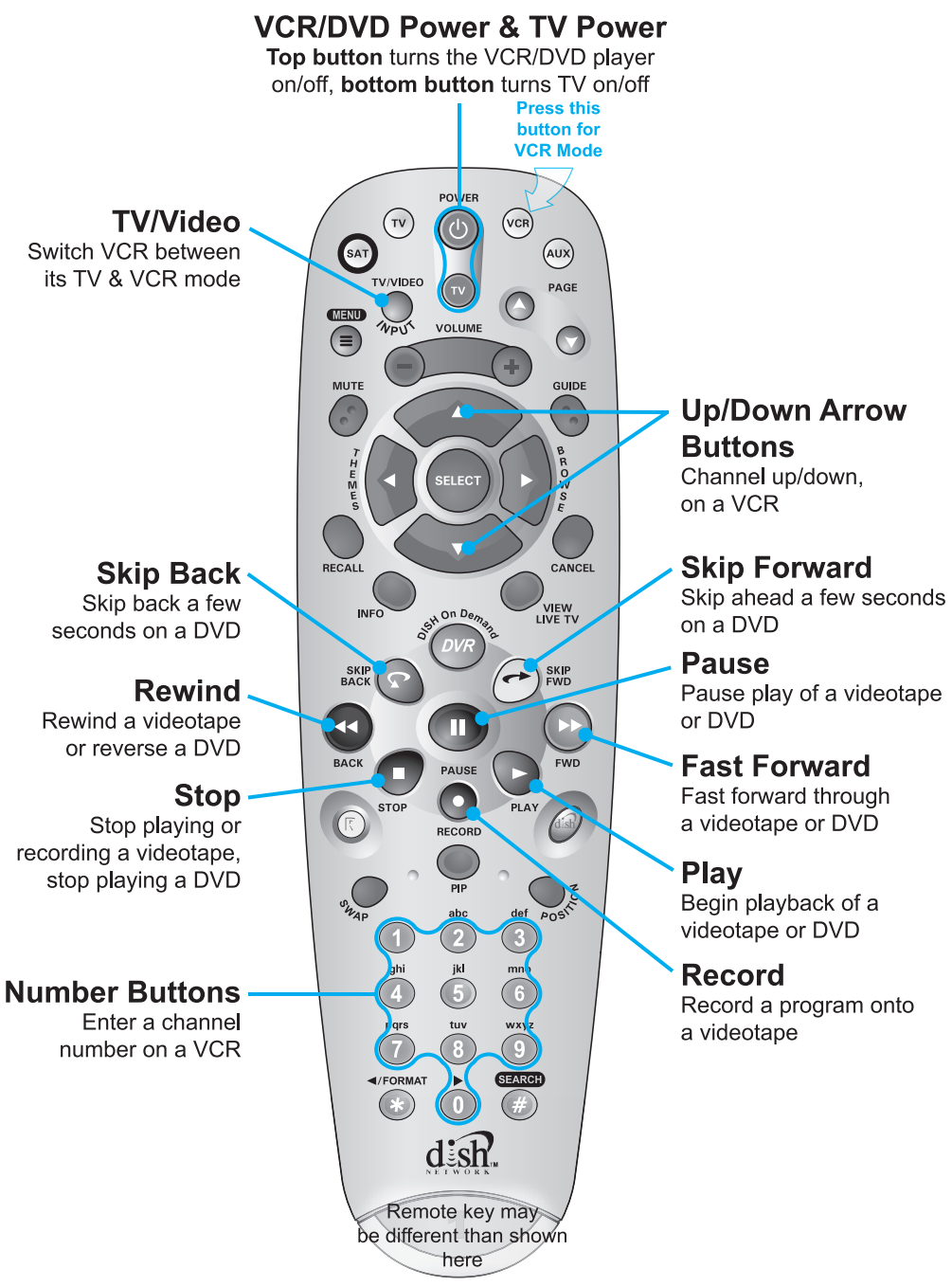
Volume Buttons
Controls TV volume

Up/Down Arrow Buttons
Channel up/down, on TV

Chapter 2

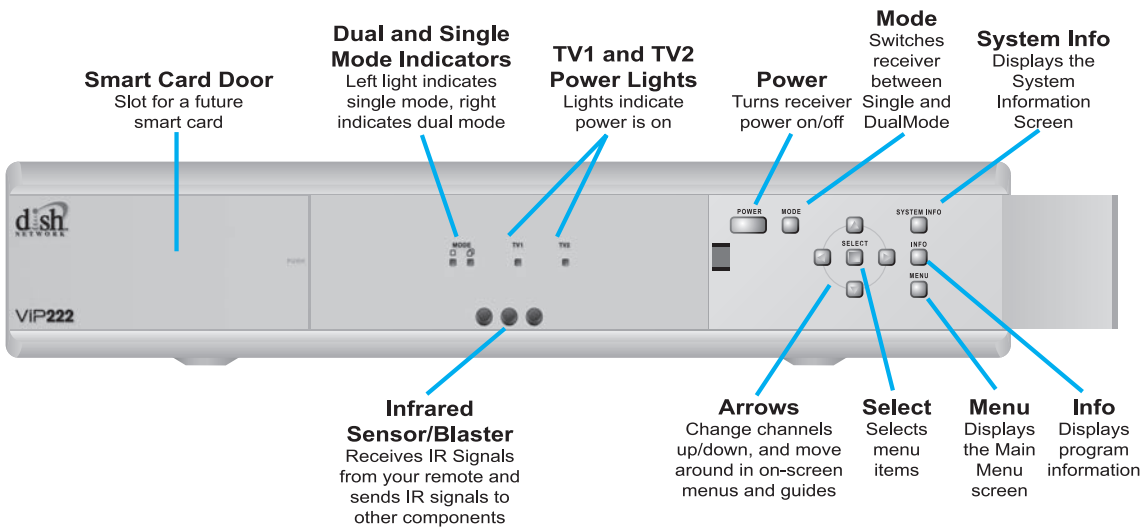
Remote Controls

To use the features as described in this section, make sure you are in VCR mode by pressing the VCR Mode button. You can use this mode to operate your DVD player instead of a VCR.

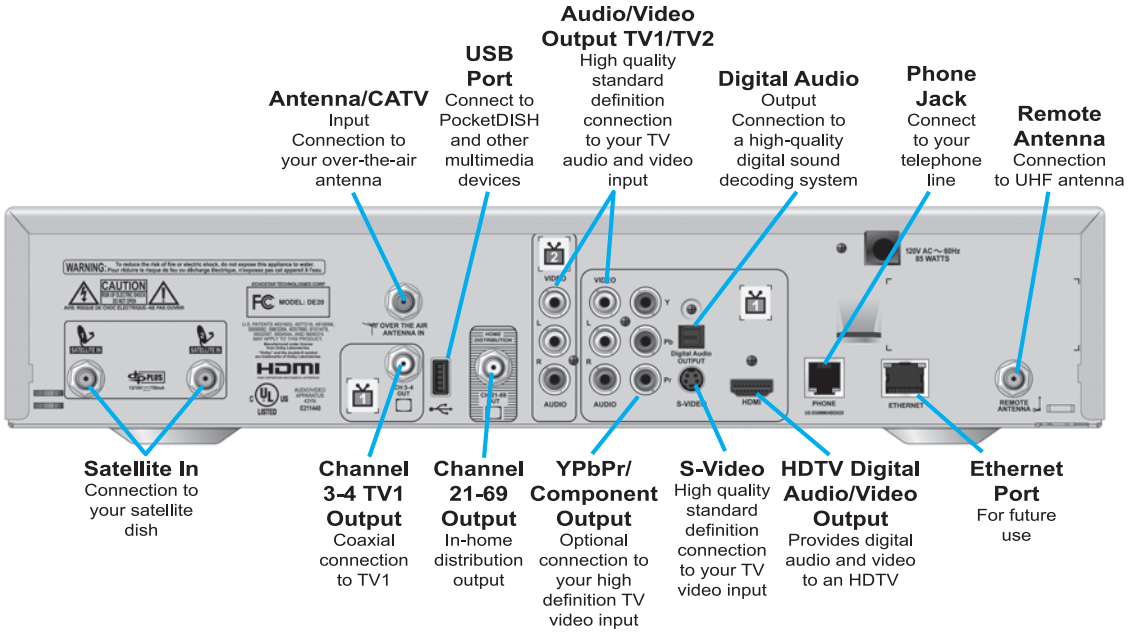


Chapter 02 Two Color.fm Page 19 Tuesday, July 25, 2006 3:02 PM

Satellite Receiver Front Panel


Smart Card Door
Slot for a future smart card
Dual and Single Mode Indicators
Left light indicates single mode, right indicates dual mode
TV1 and TV2 Power Lights
Lights indicate power is on
Power
Turns receiver power on/off
Mode
Switches receiver between Single and DualMode
System Info
Displays the System Information Screen
Infrared Sensor/Blaster
Receives IR Signals from your remote and sends IR signals to other components
Arrows
Change channels up/down, and move around in on-screen menus and guides
Select
Selects menu items
Menu
Displays the Main Menu screen
Info
Displays program information
VIP222

Satellite Receiver Back Panel


Antenna/CATV
Input Connection to your over-the-air antenna
USB Port
Connect to PocketDISH and other multimedia devices
Audio/Video Output TV1/TV2
High quality standard definition connection to your TV audio and video input
Digital Audio
Output Connection to a high-quality digital sound decoding system
Phone Jack
Connect to your telephone line
Remote Antenna
Connection to UHF antenna
Satellite In
Connection to your satellite dish
Channel 3-4 TV1 Output
Coaxial connection to TV1
Channel 21-69 Output
In-home distribution output
YPbPr/ Component Output
Optional connection to your high definition TV video input
S-Video
High quality standard definition connection to your TV video input
HDTV Digital Audio/Video Output
Provides digital audio and video to an HDTV
Ethernet Port
For future use

Chapter 02 Two Color.fm Page 20 Tuesday, July 25, 2006 3:02 PM

USING THE MENUS

The menus make using the receiver and selecting programs quick and easy. Use the menus to control the receiver and to use its features, such as setting locks, choosing a program, or creating a favorites list.

Open and Close Menus

You can open the menus in either of two ways:

- Press MENU to open the Main Menu, then open any of the other menus from the Main Menu.
- Use the following buttons on the remote control:
  - Press GUIDE to open the Program Guide.
  - Press THEMES (LEFT ARROW) when watching a program to open the Themes and Search menu.
  - Press BROWSE (RIGHT ARROW) to display the Browse Banner.

To close a menu and return to watching a program, press VIEW LIVE TV.

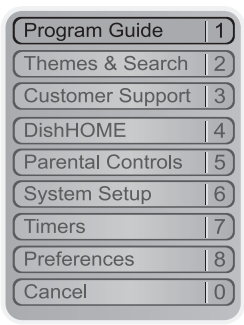
Highlighting Menu Options

Use the remote control ARROWS to move the on-screen highlight to the menu option. When you move the on-screen highlight, the option becomes amber.

Selecting Menu Options

When you select a menu option, that option takes effect right away. You can select a menu option in either of two ways:

- Move the highlight to the menu option using the remote control ARROWS. Then press SELECT. In the example, Program Guide is highlighted.
- If the option has a number next to it, press the number on the NUMBER PAD button that matches this number. When you use the NUMBER PAD, you do not need to highlight the option first.



Chapter 02 Two Color.fm Page 21 Tuesday, July 25, 2006 3:02 PM

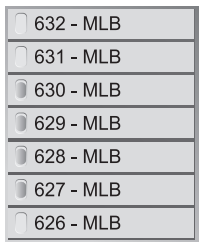
List of Choices in the Menus

When you make a choice in a list, the receiver does not apply the change until you select Save or Done. If you do not want to save any changes, select Cancel to discard all the changes made in the menu.

There are two types of lists:

- A single choice list allows you to select only one choice at a time. If you select another choice, your previous choice is deselected.

- A multiple choice list allows you to select more than one choice at one time. If you select another choice, your previous choice(s) stays selected.



Canceling a Procedure

You can cancel a procedure in any of three ways:

- If you want to return to watching a program, press VIEW LIVE TV.
- If you want to return to the previous menu, press CANCEL.
- Wait a few moments and the menu will close automatically, discarding any changes you have made.

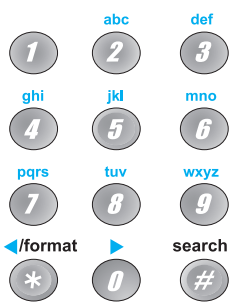
USING TEXT FIELDS

When you use features on the receiver, you might be required to enter information, such as the name of a movie when using Search, into areas known as *text fields*. Your receiver has two basic ways to enter the information:

- Virtual Keyboard
- Remote Control NUMBER PAD

Using the Virtual Keyboard

Use the virtual keyboard letters to type the information. Use the LEFT, RIGHT, UP, and DOWN ARROWS to navigate around the keyboard. Select the characters you want.



Using the Number Pad

Use the letters above the NUMBER PAD on the remote control—just like on a telephone—while the highlight is in the field. For example, when looking for the channel and times to watch *Rudy Friml Presents*, you press 7 three times for an R, 8 two times for a U, 3 one time for a D, and 9 three times for a Y to spell the word "Rudy."

While in the Text Field

When the cursor is in the text field:

Press the LEFT ARROW to delete characters.

Press FORMAT/* to backspace without deleting characters.

Press 0 to enter a blank space, such as between words.

Use the RIGHT ARROW to forward space without deleting characters.

Chapter 02 Two Color.fm Page 23 Tuesday, July 25, 2006 3:02 PM

TIPS

- You can use the Front Panel Locks to prevent the mode from being changed accidentally. See page 47 for instructions.
- The only way to turn off the TV2 outputs is by using POWER on Remote Control 2.
- In Dual Mode, Remote Control 1 is used to control TV1 menus on the nearby TV. Remote Control 2 is used to control TV2 menus on the remote TV(s).
- If you do not do anything in a menu for several minutes, the menu automatically closes. This will discard any changes you made, and display the program you were watching.
- To use Remote Control 2, be sure to attach the UHF Remote Antenna. See page 15 for details.
- On Remote Control 2, press FORMAT/* to change the aspect ratio (display shape) of HD channels displayed on remote TV(s).

QUESTIONS

- **Why put the receiver in Single Mode?** So you can use the PIP functions. While the receiver is in Single Mode, you can watch the same program on all the TVs connected to the receiver.

Chapter 02 Two Color.fm Page 24 Tuesday, July 25, 2006 3:02 PM

Chapter 2

Questions

Notes

222.book Page 25 Tuesday, July 25, 2006 1:30 PM

Finding Programs to Watch

Chapter 3

Watching TV

The receiver is on channel 414, but you want to change the channel to 210. How do you change the channel? You know your team is playing, but you're not sure of the channel. How do you find the game? You're in the mood for a movie, but you don't know which one. Is there a way to look for movies? This chapter shows you the various ways for you to find something to watch.

You'll find the following information in this chapter:

- CHANGING CHANNELS
- USING THE PROGRAM GUIDE
- USING THE BROWSE BANNER
- USING SEARCH TO FIND A PROGRAM
- FINDING A PROGRAM BY ITS THEME
- USING PICTURE-IN-PICTURE

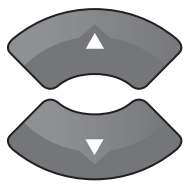
222.book Page 26 Tuesday, July 25, 2006 1:30 PM

CHANGING CHANNELS

There are two basic ways to change the channel on your satellite TV receiver:

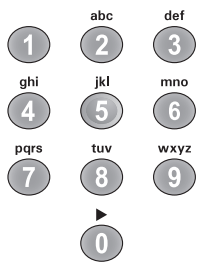
- Use UP and DOWN ARROWS on your remote control
- Enter a channel number with the NUMBER PAD

Using the Up and Down Arrows



While watching live TV, if you want to change the channels one at a time to see what's on, press the UP and DOWN ARROWS on your remote control. You can also change the channels the same way using the UP and DOWN ARROWS on the receiver front panel.

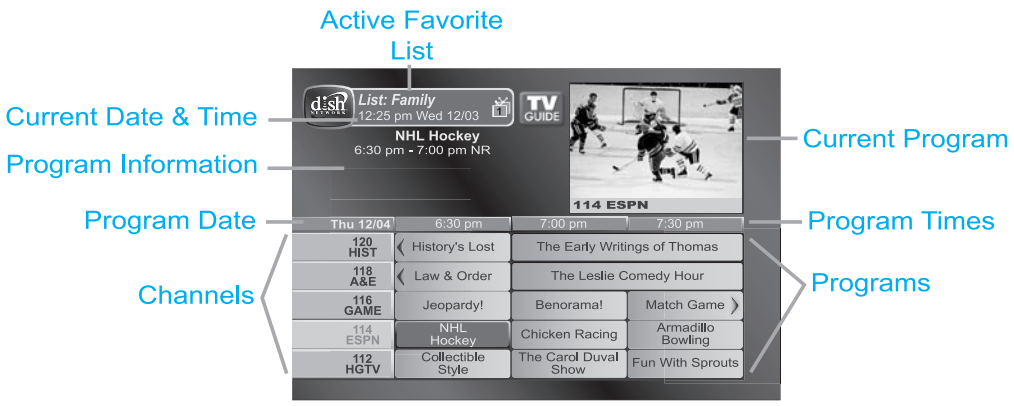
Entering a Channel Number



While watching live TV, if you know the specific channel you want to watch, enter the channel number using the NUMBER PAD on the remote control.

USING THE PROGRAM GUIDE

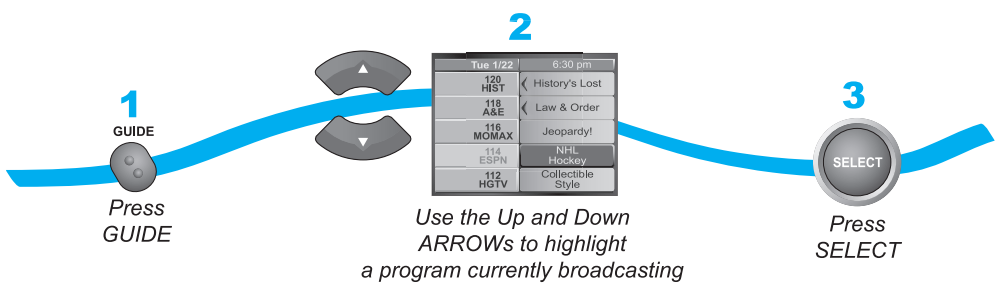
You can use the Program Guide to see what programs are on, to change channels, and to set up recordings. To access the guide, press GUIDE.



- A red background behind a channel usually means you have not subscribed to the channel. After you subscribe to a channel, you can tune to it. To subscribe to a channel, visit our website at dishnetwork.com or call 1-800-333-DISH (3474).
- A yellow background behind a channel is for digital over-the-air channels. See page 95 for instructions to connect an over-the-air antenna to your receiver.

222.book Page 27 Tuesday, July 25, 2006 1:30 PM

- A green background behind a channel means that you can use your remote control to add the channel to your subscription.
- The Program Guide shows which Favorites List is active. If All Chan is active, the Program Guide shows all the channels. The All Sub list shows only the channels in your subscription. The All HD list shows all the HD channels in your subscription. If you activate another list, the Program Guide shows only the channels on that list. See page 37 for information on Favorites Lists.
- The Program Guide shows programs on now and coming on within the next two days. The guide does not show programs that have ended.



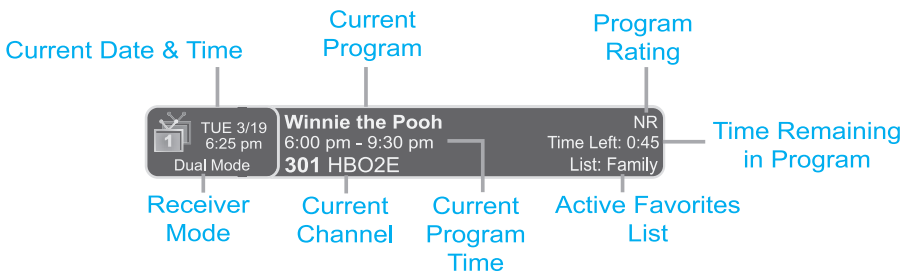
While using the Program Banner, you can:

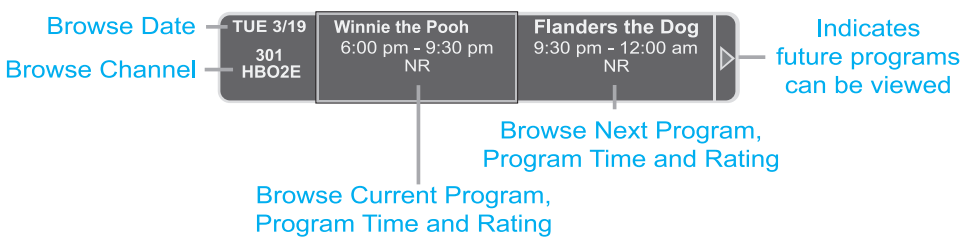
- Press PAGE UP or PAGE DOWN to move a page at a time.
- Enter the number of hours you want to skip, and then press the RIGHT/LEFT ARROW to move forward or back in the schedule.
- Press SKIP FWD and SKIP BACK to move forward or back a day at a time.

222.book Page 28 Tuesday, July 25, 2006 1:30 PM

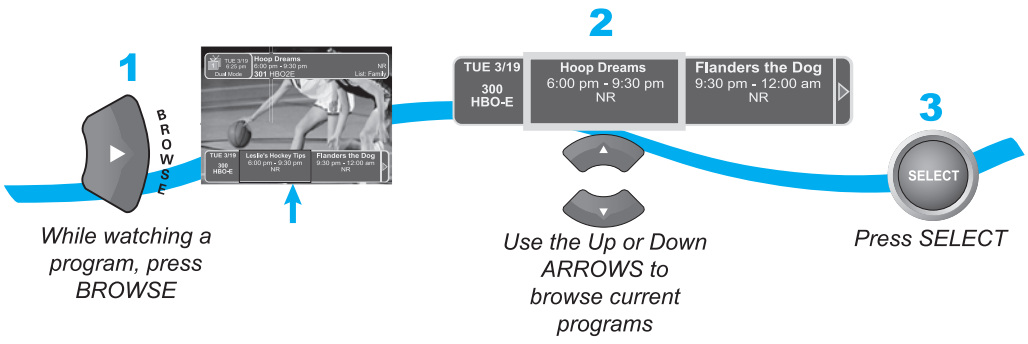
USING THE BROWSE BANNER

Use the Browse Banner to see what other programs are on and not miss any of a program you are watching.





When the Browse Banner is open, you will see the Program Banner information on the current program at the top of the screen, and on the left side of the Browse Banner at the bottom of the screen. At the bottom right of the screen is information on the program that is coming on next on the same channel.

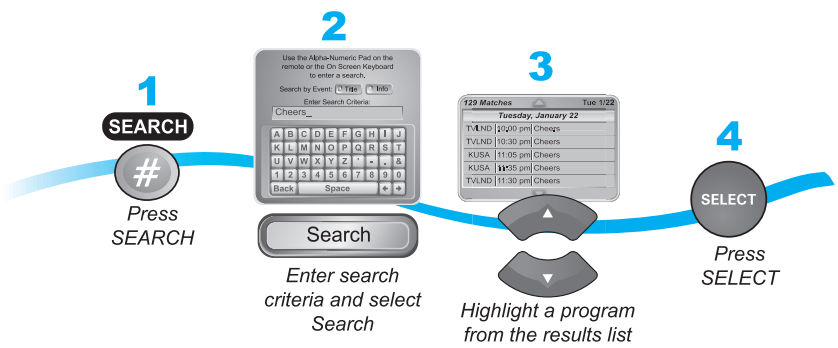


222.book Page 29 Tuesday, July 25, 2006 1:30 PM

USING SEARCH TO FIND A PROGRAM

You can find programs to watch by using the Search feature of the receiver. This feature will search all channels, including over-the-air channels (if an over-the-air antenna is connected to the receiver as described on page 95), and find programs that match keywords that you enter.

Using the Search Feature



You can search for events two ways:

- Select Title to search for the words that appear in the title of a program.
- Select Info to search for words that are in the program description or title.

Enter the search word(s) in the Search Criteria Field in one of two ways (see page 22):

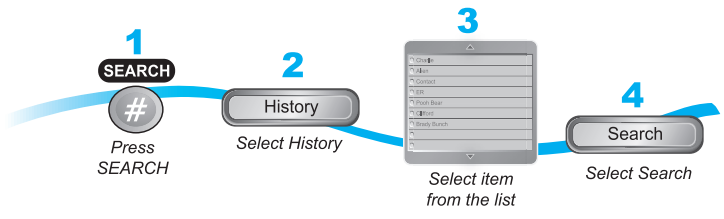
- Use the virtual keyboard.
- Use the letters on the NUMBER PAD.

If you select a program that is on now, the receiver tunes to that program. If you choose a future program, the Create Timer screen will display. See *Chapter 8 - Recording Future Programs* on page 51 for more information.

Using Search History

After you have searched previously for programs or other information, your receiver builds a history. You can use the Search History to re-search programming instead of typing the information again.

Note: Use the Edit or Delete options to change or delete Search Keywords.



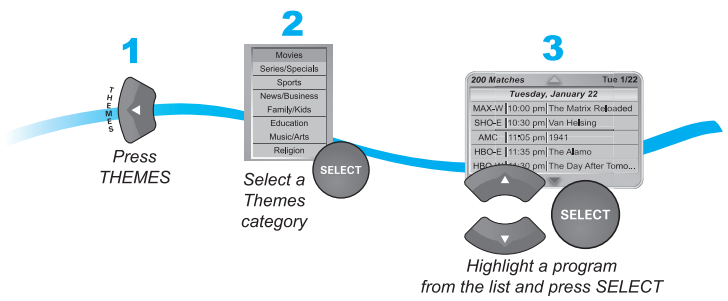
222.book Page 30 Tuesday, July 25, 2006 1:30 PM

Chapter 3

Finding a Program by its Theme

FINDING A PROGRAM BY ITS THEME

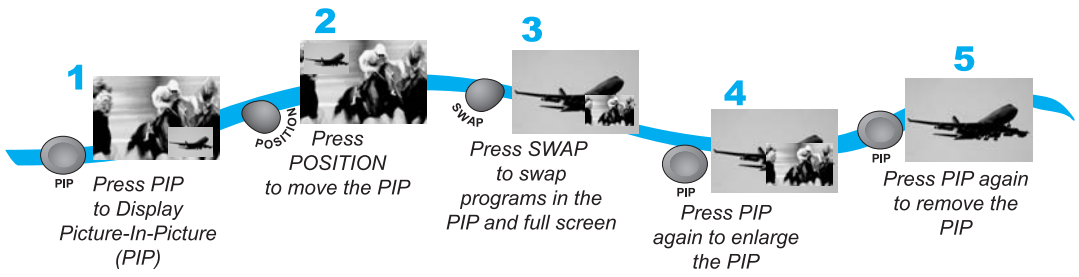
You can list and choose programs by the theme of their contents, for example, just movies or just sports. You can then quickly list programs based on that theme, and choose the program you want. This feature also categorizes programs on over-the-air channels (if an over-the-air antenna is connected to the receiver as described on page 95).



If you select a program that is on now, the receiver tunes to that program. If you choose a future program, the Create Timer screen will display. See *Chapter 8 - Timers* on page 51 for more information.

USING PICTURE-IN-PICTURE

Picture-In-Picture (PIP) lets you watch two programs at once and is only available in Single Mode. The following instructions describe how to use PIP (see page 13 for instructions on changing to Single Mode).



222.book Page 31 Tuesday, July 25, 2006 1:30 PM

TIPS

- Press INFO to get more information about the program you highlighted.
- Press VIEW LIVE TV to cancel almost any screen and return to live TV.
- Press SWAP, without pressing PIP first, to switch between the two tuners in Single Mode.

QUESTIONS

- **How can I customize the Program Guide?** You can set up a Favorites List as described on page 39. You can change how the Program Guide is displayed (size of text, number of programming hours displayed, etc.) as described on page 79.
- **Why are some of my channels missing?**
  - You may have locked or hidden the channels. See *Chapter 6 - Parental Controls* on page 41 for information on locking and unlocking the receiver.
  - You may have the wrong list showing in the Program Guide. Press GUIDE to open the Program Guide. Press GUIDE again to select the next Favorites List. Press GUIDE repeatedly to scan through all the available lists. See Favorites Lists on page 37 for more information.
- **Which remote do I use?**
  - Dual Mode: Use Remote Control 1 with TV1's outputs (nearby TV) and Remote Control 2 with TV2's (remote TV) outputs.
  - Single Mode: Both remotes control the entire receiver.
- **Why isn't PIP working?** Your receiver is probably in Dual Mode. Press MODE on the front panel to put the receiver in Single Mode if you'd like to use PIP.

222.book Page 32 Tuesday, July 25, 2006 1:30 PM

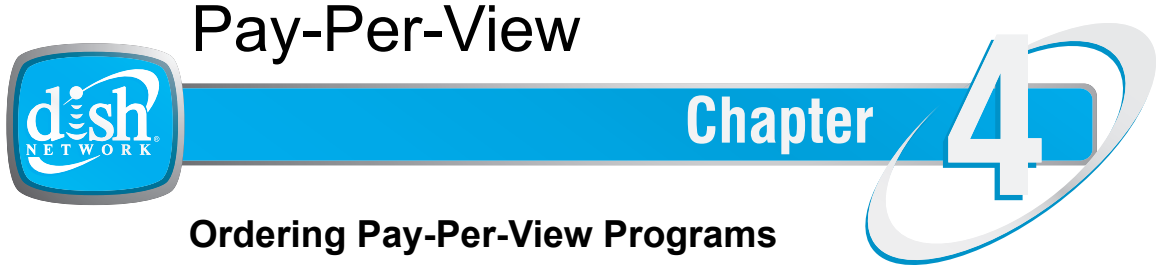
Chapter 3

Questions

Notes

222.book Page 33 Tuesday, July 25, 2006 1:30 PM

Pay-Per-View



Ordering Pay-Per-View Programs

Is tonight a popcorn and movie night? Why rent videos when you can use the information in this chapter to order and watch Pay-Per-Views?

- BUYING A PAY-PER-VIEW PROGRAM
- REVIEWING PAY-PER-VIEW PURCHASES

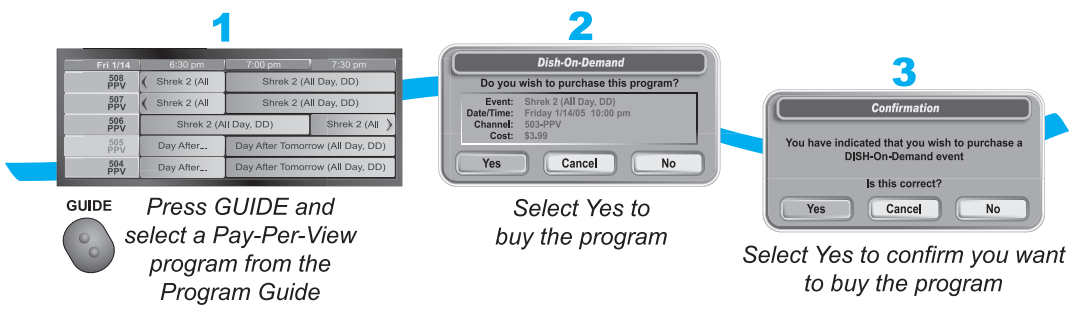
222.book Page 34 Tuesday, July 25, 2006 1:30 PM

Chapter 4

Buying a Pay-Per-View Program

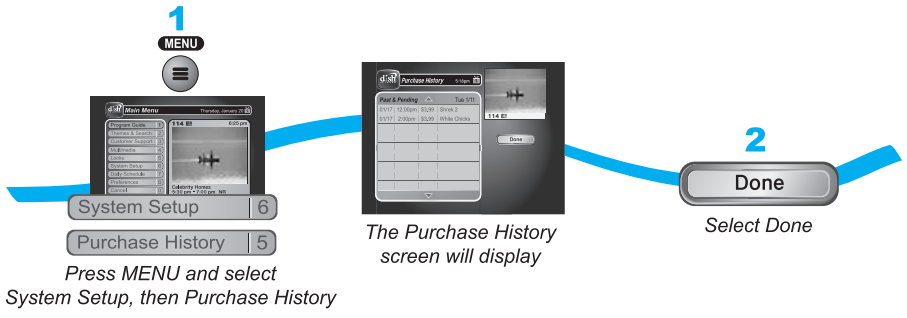
To buy Pay-Per-View programs using your remote control, you must connect the receiver to an active phone line. After you buy a Pay-Per-View program, you can watch it on all of the receivers on your DISH Network account. Using the remote control, you can order the exact same program for each receiver but you pay for the program only once. However, replays (other than All-Day events) of programs are separate events. Go to dishnetwork.com/ppv for a description of the types of Pay-Per-View events.

Buying a Pay-Per-View Program



Note: Once you confirm an order for a Pay-Per-View program, you cannot cancel the order and you will be billed for it.

Reviewing Pay-Per-View Purchases



222.book Page 35 Tuesday, July 25, 2006 1:30 PM

TIPS

- You can prevent others from purchasing Pay-Per-View programs by using locks (see page 45).
- Keep an active phone line connected to your receiver so you can order Pay-Per-View programs with your remote control.

QUESTIONS

- **How can I order an event for all my receivers?**
  - Order on each receiver, one at a time with the remote control. Make sure an active phone line is connected to each receiver.
  - Order the event over the phone 1-877-DISH-PPV (347-4778). Charges may apply.
  - Order the event online at www.dishnetwork.com/ppv.
  - Order the event over the phone at 1-800-333-DISH. Charges may apply.
- **I ordered a Pay-Per-View but can only see it on one receiver.** Some Pay-Per-View programs are restricted to one receiver per account.
- **Will I be charged more than once for ordering the same Pay-Per-View on two or more receivers?** If you're using the remote control, you won't be charged more than once as long as it is the same exact event (for example, at the same time or All Day events).
- **Why doesn't my Program Guide show any Pay-Per-View channels?** You may be using a Favorites List that doesn't include Pay-Per-View channels. Press GUIDE to open the Program Guide and then press GUIDE again until you see All Chan in the upper left corner of the Program Guide. See *Chapter 5 - Favorites Lists* on page 37 for more information on using Favorites Lists. You may have Pay-Per-View channels locked and hidden. See *Chapter 6 - Parental Controls* on page 41.
- **Why are some Pay-Per-View programs blacked out?** Sporting events and other programs are sometimes blacked out because of local restrictions.
- **Why did my all-day Pay-Per-View program shut off while I was watching it?** The all-day events run from 3 AM to 3 AM (Mountain Time).

222.book Page 36 Tuesday, July 25, 2006 1:30 PM

Chapter 4

Questions

Notes

222.book Page 37 Tuesday, July 25, 2006 1:30 PM

Favorites Lists

Chapter 5

Setting Up Your Favorites Lists

One of the benefits of DISH Network is that you have access to many channels. However, the number of channels can make it difficult to find something to watch. When you read this chapter, you'll learn how to set up and use Favorites Lists. The information in this chapter shows you how to fit your favorite channels into neat, organized lists.

- WHAT ARE FAVORITES LISTS?
- CREATING OR CHANGING FAVORITES LISTS
- NAMING FAVORITES LISTS
- USING FAVORITES LISTS

222.book Page 38 Tuesday, July 25, 2006 1:30 PM

WHAT ARE FAVORITES LISTS?

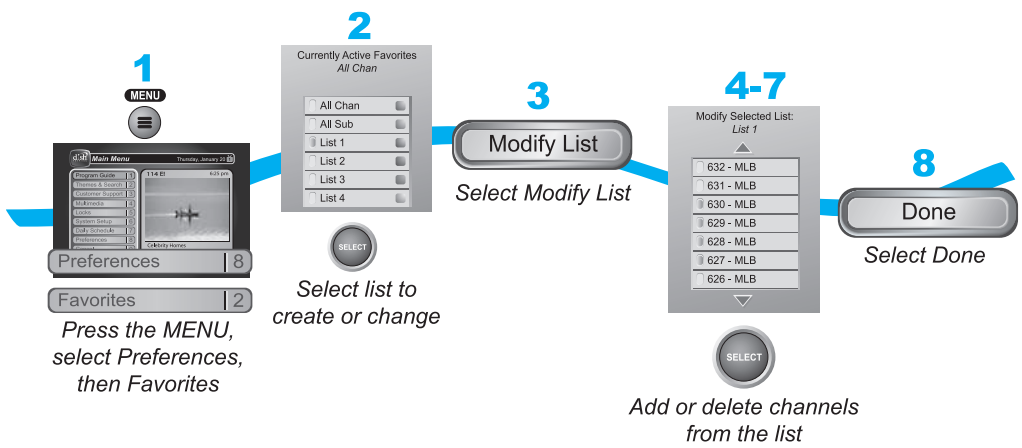
Favorites Lists are lists of your favorite channels. You can create and change the lists yourself, adding and removing channels as you wish. Your favorite channels can be grouped into up to four lists for TV1 and four lists for TV2 (in Dual Mode).

- When using a Favorites List, the Program Guide and Browse Banner display only the channels in that Favorites List. Also, when you use the remote control UP or DOWN ARROW to change channels, the receiver skips channels that are not on the list.
- The All Chan list contains all the channels, including channels not in your current subscription. You cannot make any changes to the All Chan list.
- The All Sub list contains all the channels in your subscription. You cannot make any changes to the All Sub list, except by changing your subscription.
- The All HD list contains all the HD channels in your subscription.
- Each Favorites List has a unique color in the Program Guide. You can give each list a name. When you first get the receiver, the four lists are named List 1, List 2, List 3, and List 4. The lists are empty until you add channels to them.
- When you put the receiver in Single Mode, the Favorites Lists for only TV1 are available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- If you choose a program using Themes or by entering a channel number using the remote controls, the receiver tunes to the channel for that program whether or not that channel is on the active Favorites List.
- You can include over-the-air channels in your Favorites Lists if an over-the-air antenna is connected to the receiver. See page 95 for instructions on connecting an over-the-air antenna.

222.book Page 39 Tuesday, July 25, 2006 1:30 PM

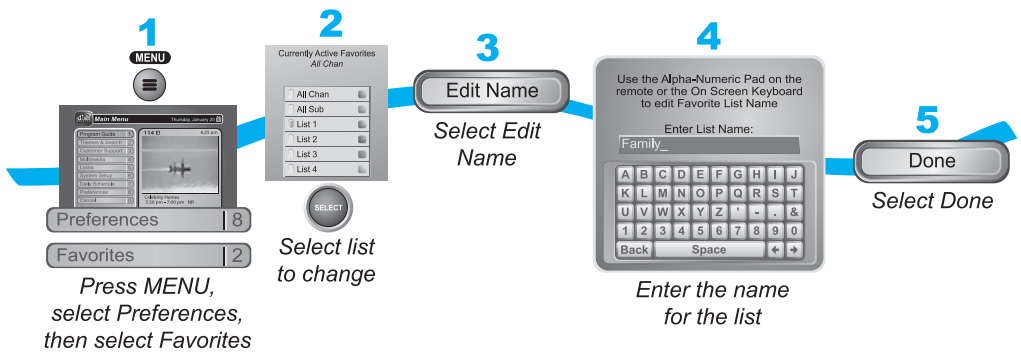
Creating or Changing Favorites Lists

You can create, add channels to, and remove channels from a Favorites List. When you use your Favorites List only those channels in your list are shown in the Program Guide and Browse Banner.



Naming Favorites Lists

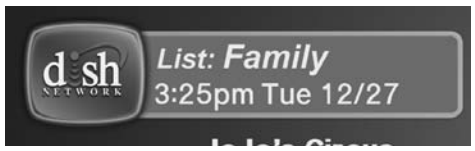
You can name your Favorites Lists whatever you want, up to eight characters long.



Using Favorites Lists

Press GUIDE to open the Program Guide. Press GUIDE again to select the next Favorites List. Press GUIDE repeatedly to scan through all the available lists.

GUIDE



222.book Page 40 Tuesday, July 25, 2006 1:30 PM

TIPS

- Two lists cannot have the same name. For example, on TV1, you cannot have two lists named “Dad’s List.” However, TV1 and TV2 can have lists with the same names.
- Pressing GUIDE to switch Favorites Lists works only if you have added channels to the Favorites List. If you have not created a Favorites List, pressing GUIDE switches the receiver between the All Chan, All Sub, and All HD Lists.
- When you put the receiver in Single Mode, the Favorites Lists for TV2 are not available. However, when you go back to Dual Mode, the Favorites Lists for TV2 are available again.
- Locked and hidden channels do not display in Favorites Lists.

QUESTIONS

- **Why are channels missing from the Program Guide?**
  - You might have a Favorites List that does not contain those channels. Press GUIDE until the All Chan or All Sub list displays.
  - You might have channels locked or hidden.
- **Why are TV2’s Favorites Lists missing?** When the receiver is in Single Mode, TV2’s Favorites Lists are not available.

222.book Page 41 Tuesday, July 25, 2006 1:30 PM

Parental Controls

Chapter 6

Setting Up Locks

An important concern to parents is the ability to protect their children. With high tech television comes greater potential for unwanted programming beamed into your home. Use the safeguards described in this chapter to set up and use locks.

- WHAT ARE LOCKS?
- LOCKING AND UNLOCKING YOUR RECEIVER
- CREATING OR CHANGING RATINGS LOCKS
- CREATING OR CHANGING CHANNEL LOCKS
- LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS
- HIDING ADULT CONTENT OR LOCKED CHANNELS
- LOCKING OR UNLOCKING THE FRONT PANEL

222.book Page 42 Tuesday, July 25, 2006 1:30 PM

WHAT ARE LOCKS?

Locks (Parental Controls) allow you to password-protect programming based on ratings, or on a channel-by-channel basis. When you have locked the receiver:

- If you try to access a locked item or open the Locks menu, the receiver displays a message prompting you to enter the password.
- The receiver allows you three attempts to enter the correct password. If you fail to enter the correct password, the receiver does not allow you to try again for several minutes.
- If you enter the correct password, you can access the locked item or open the Locks menu.
- If you exit a locked item or close the Locks menu, you must enter the password to access the item.
- If you want to enable the TV1 Out on the Modulator Setup screen (see page 74), you must enter the password to continue.

Locks for programming on the TV1 outputs for the nearby TV are set using the TV1 menus. Locks for programming for the TV2 outputs to remote TVs are set using the TV2 menus. Locks set for TV1 programming are separate from locks set for TV2 programming. The information in this chapter applies to locks set by either TV1 or TV2 menus.

When you unlock programming delivered by the CH 21-69 OUT to your in-home cabling system, you are allowing all TVs connected to your in-home cabling system to have access to this programming. In this case, you must rely on the V-Chip technology and settings in the individual TVs to prevent viewing of inappropriate programming. Consult your TV user's guides for instructions to set up V-Chip protection.

Locking the receiver is a two-step process:

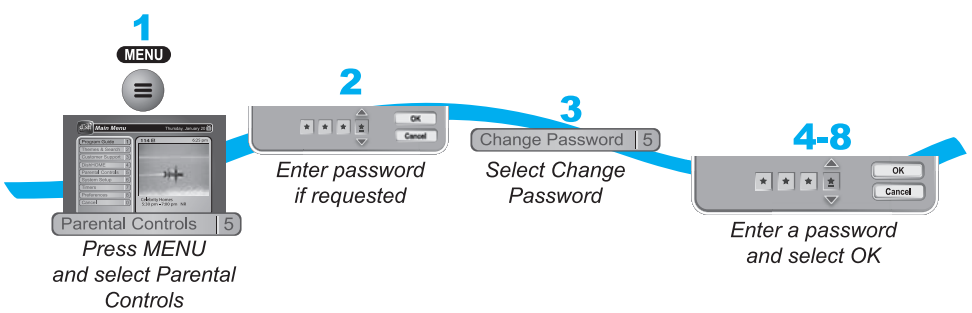
1. Create the locks that you want.
2. Lock the receiver.

   When the receiver is locked, anyone who wants to access locked items must enter the password.

222.book Page 43 Tuesday, July 25, 2006 1:30 PM

Creating or Changing a Password

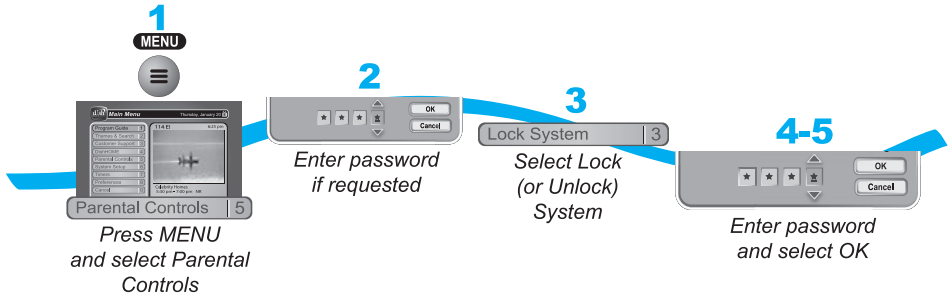
The first thing to do before using the receiver locks is set up your password.



1. Press MENU and select Parental Controls (5).
2. If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.
3. Select Change Password.
4. Enter the current password using the NUMBER PAD. Select OK.
5. Press SELECT.
6. Enter the new password using the NUMBER PAD. Select OK.
7. Enter the new password again for confirmation, using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.
8. Memorize the new password. From now on, enter this password to lock or unlock the receiver. If you forget your password, you will need to speak with a Customer Service Representative.

Locking and Unlocking Your Receiver

You must lock the receiver for any receiver locks you set to take effect. Locking the receiver also locks TV1's modulator output (see page 74). To lock the receiver, you must first create a password (see *Setting Up a Password* in the previous section). Be sure to refer to this section whenever you set any lock on your receiver.



222.book Page 44 Tuesday, July 25, 2006 1:30 PM

1 Press MENU and select Parental Controls (5).

2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.

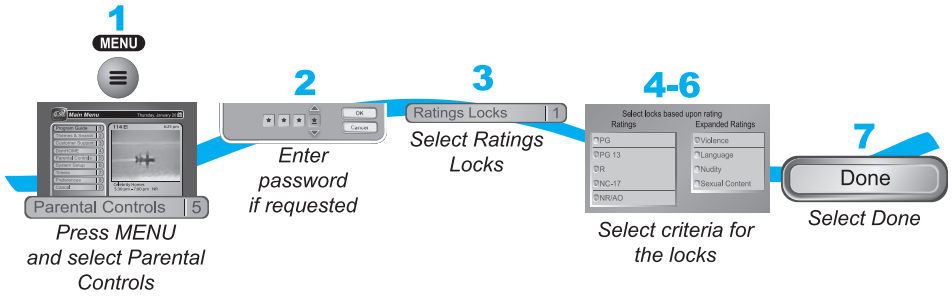
3 Select Lock System or Unlock System. If you are locking the receiver, the receiver displays a message prompting you to enter a password.

4 Enter a password, using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.

5 Confirm the password by re-entering it. Select OK. All the locks you have set are now in effect.

Creating or Changing Ratings Locks

You can lock programs based on Motion Picture Association of America (MPAA) ratings (PG, PG 13, etc.) and expanded ratings (violence, language, etc.).



1 Press MENU and select Parental Controls (5).

2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.

3 Select Ratings Locks.

4 Highlight the least restrictive rating that you want to block. Press SELECT to lock the highlighted rating and all ratings more restrictive than it (for example, locking PG 13 automatically locks R and NC-17).

5 Select the expanded rating code(s), if you want to also lock these ratings.

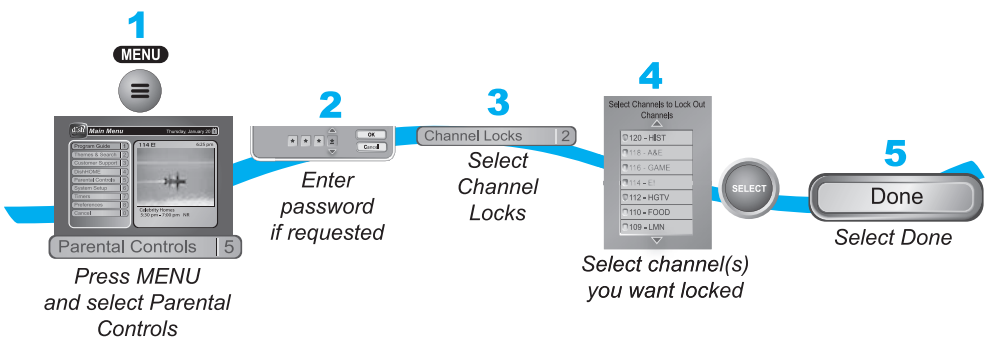
6 To unlock a rating code, select the code.

7 Select Done. Make sure the receiver is locked as described on page 43.

222.book Page 45 Tuesday, July 25, 2006 1:30 PM

CREATING OR CHANGING CHANNEL LOCKS

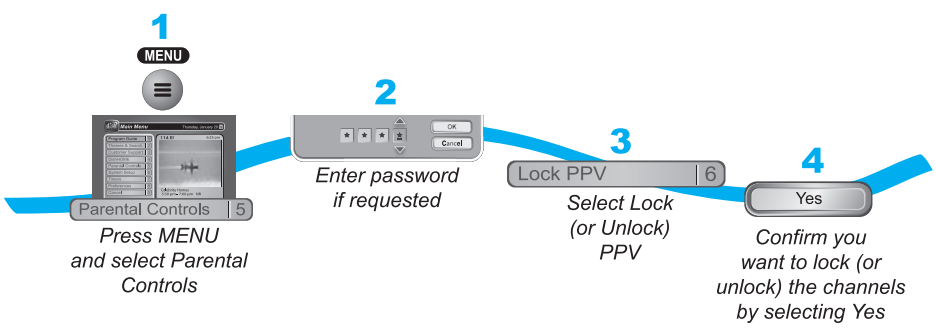
You can lock any channel, including Pay-Per-View and over-the-air channels. This type of lock keeps anyone from viewing these channels unless they enter the correct password.



1. Press MENU and select Parental Controls (5).
2. If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.
3. Select Channel Locks.
4. Highlight and select each channel that you want to lock or unlock. Press UP or DOWN ARROW to highlight the channel. You can also move to each channel number using the NUMBER PAD. If the checkbox next to the channel has a checkmark, the channel is locked.
5. Select Done. Make sure the receiver is locked as described on page 43.

LOCKING OR UNLOCKING PAY-PER-VIEW CHANNELS

This locks all Pay-Per-View channels. This type of lock keeps anyone from viewing these channels by using the UP or DOWN ARROWS or the remote control NUMBER PAD. You also can lock individual Pay-Per-View channels by using channel locks.

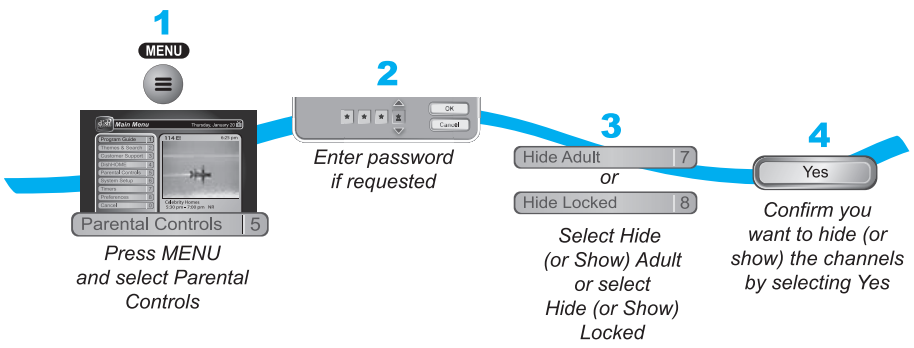


222.book Page 46 Tuesday, July 25, 2006 1:30 PM

1. Press MENU and select Parental Controls (5).
2. If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.
3. Select Lock PPV or Unlock PPV.
4. Select Yes. Make sure the receiver is locked as described on page 43.

HIDING ADULT CONTENT OR LOCKED CHANNELS

When you hide adult channels or locked channels, you prevent the Program Guide, Themes lists, and the Browse Banner from displaying adult channels. It also prevents anyone from choosing these channels by using the UP or DOWN ARROWS or the remote control NUMBER PAD.

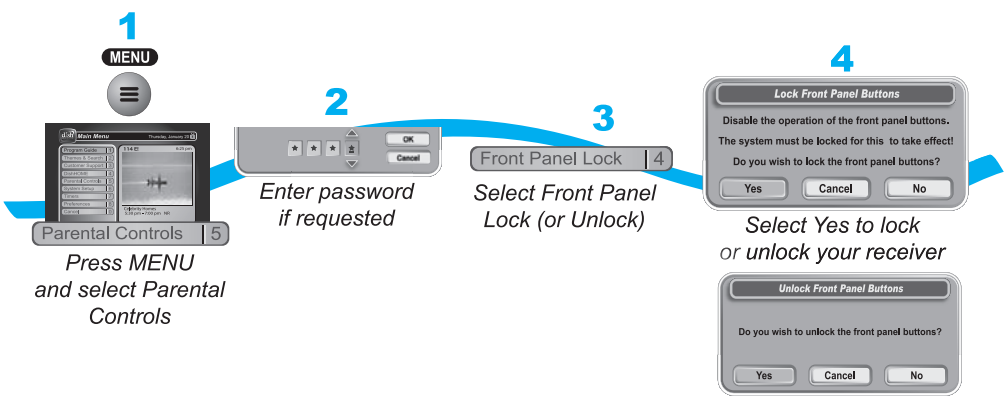


1. Press MENU and select Parental Controls (5).
2. If the receiver is locked, enter the password using the NUMBER PAD. Select OK.
3. Select Hide Adult or Show Adult.
4. Select Yes. Make sure the receiver is locked as described on page 43.

222.book Page 47 Tuesday, July 25, 2006 1:30 PM

LOCKING OR UNLOCKING THE FRONT PANEL

This lock keeps anyone from using the front panel buttons unless they enter the correct password, but it does not lock the remote control buttons. This option is only available on TV1 menus.



1 Press MENU and select Parental Controls (5).

2 If the receiver is locked, enter the password using the NUMBER PAD. The receiver displays stars (*) as you enter the digits of the password. Select OK.

3 Select Front Panel Lock to lock or unlock the front panel.

4 Select Yes. To activate the Front Panel Lock, lock the receiver as described on page 43.

222.book Page 48 Tuesday, July 25, 2006 1:30 PM

TIPS

- If the receiver displays a message prompting you to enter a password, the receiver is locked.
- If you want to unlock the receiver or any specific lock, use the password for the TV output you're watching. For example, use TV1's password to unlock TV1's locks and TV2's password for TV2's locks.
- When you lock a rating, you also lock all other more restrictive ratings. For example, if you lock PG 13 rated programs, then all programs with the R, NC-17, and NR/AO ratings are also locked.

QUESTIONS

- **Why didn't a lock I set take effect?** You have to lock the receiver for any lock you set to take effect. See page 43 for details.
- **Why don't the locks I set for TV2 work?** The locks you set on TV2 are not available in Single Mode.
- **What do I do if I forget my password?** If you forget your password, you will need to speak with a Customer Service Representative.

222.book Page 49 Tuesday, July 25, 2006 1:30 PM

Interactive TV

Interacting with Your TV

Play games, shop, and get help from Customer Service! Use the information in this chapter learn about interactive services available on your satellite receiver.

- DISHHOME
- CUSTOMER SUPPORT

222.book Page 50 Tuesday, July 25, 2006 1:30 PM

DISHHOME

Press DISH on the remote control to go to Dish**HOME** features available with your service. You can order channels, check the news and weather, and even play games. Make sure you connect an active phone line to your receiver. You can enjoy this feature on one TV at a time.

CUSTOMER SUPPORT

An important feature of your satellite TV receiver is Customer Support. This menu provides convenient access to your DISH Network account to review your statement, pay your bill, upgrade programming, and more. Make sure you connect an active phone line to your receiver.

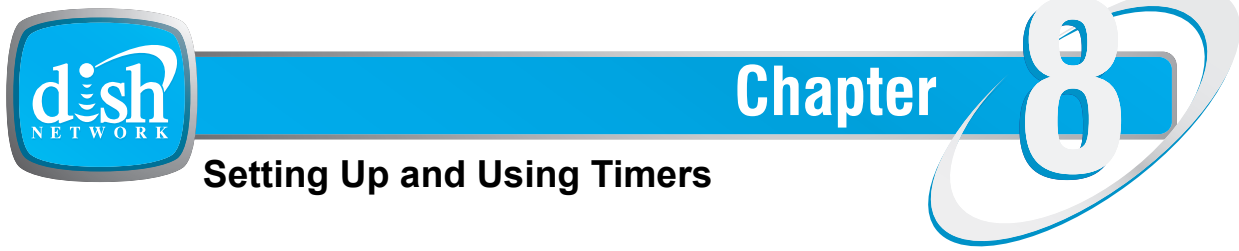
Press MENU and then select Customer Support.

TIPS

- Whenever you want to exit an interactive feature and return to watching programming, press VIEW LIVE TV and you'll be taken to the last channel you were watching.
- You can also get to Customer Support from Dish**HOME**.

222.book Page 51 Tuesday, July 25, 2006 1:30 PM

Timers



Setting Up and Using Timers

Have you found yourself having to make a choice between watching your favorite shows and living your life away from television? This chapter shows you how to set up to record future programs on a VCR so that you'll never miss your favorite shows.

- TIMERS
- USING THE TIMERS LIST
- DELETING A TIMER
- SETTING UP A MANUAL TIMER
- DELETING A TIMER

222.book Page 52 Tuesday, July 25, 2006 1:30 PM

Chapter 8

Timers

TIMERS

A timer is your instruction telling the satellite receiver the programs you want to view in the future. For most VCR timers, you select a specific program on a specific channel, and tell the satellite receiver how often you want to record that program. Be sure to set up the receiver to control your VCR (see page 77).

Timer Types

There are three types of timers:

- **VCR** - Records an event on a previously inserted tape for later viewing. Make sure you have your VCR connected and turned on when using this type of timer. Also, be sure to set up the receiver to tell the VCR to start/stop recording.
- **Auto Tune** - Automatically changes the channel for live viewing of the event.
- **Reminder** - Creates an on-screen reminder when the event is about to air.
- **ERD** - Records an event to an external device such as a PocketDISH. See page 53 for instructions on how to enable this feature.

Timer Frequency

Deciding how often you want to watch a program will help you make the best choice:

- **Once** - Records a program once (good for movies, sporting events, etc.).
- **Weekly** - Records a program once a week, at that time, on that channel.
- **Daily** - Records a program once a day, at that time, on that channel.
- **Monday-Friday** - Records a program once a day, Monday through Friday, at the selected time, on that channel.

Timers List

Use the Timers List as described on page 54 to:

- View the general list of timers.
- Create a Manual timer.
- Edit a timer.

222.book Page 53 Tuesday, July 25, 2006 1:30 PM

When a Timer Starts a Recording

For two minutes before a timer starts a recording, the receiver may display a digital countdown on the TV screen. This symbol disappears when the program begins. While the symbol is displayed, you may do one of the following:

- Press CANCEL to clear the symbol from the TV screen. This does not stop the timer from starting.
- Press INFO or SELECT to see more information on the timer. If you do this, you have the following choices:
  - Select OK to continue with the timer.
  - Select Stop Timer to stop the timer.

  Note: Pressing INFO about a timer event only works one time. Subsequently pressing INFO results in the current program's information being displayed in the normal way.

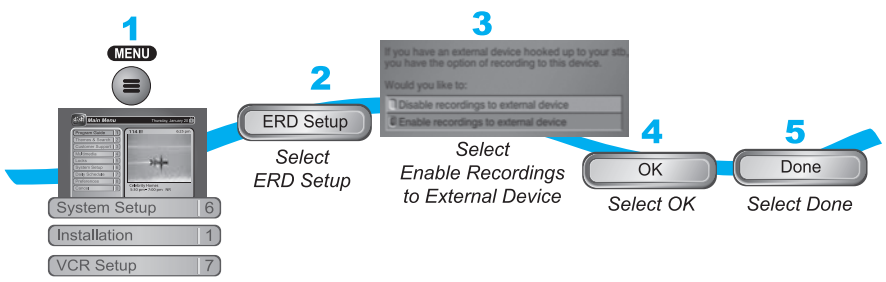
When the Receiver is Off

If the receiver is off when a timer is scheduled, the receiver will:

- **VCR** - Turn on to record the event. Make sure you have your VCR turned on and a tape inserted when using this type of timer.
- **Auto** - Turn on for the event.
- **Reminder** - Turn on at the scheduled time. After a period of time, if you do nothing, the receiver will turn OFF.

Enabling ERD

You can record your favorites shows on a device such as a PocketDISH by using the ERD feature. Make sure you enable the feature as follows:



222.book Page 54 Tuesday, July 25, 2006 1:30 PM

Special Considerations When Using Timers

- **For Locked Programs** - You must enter the receiver password before you can create an automatic timer. You can create a manual timer for a locked program without entering the password. However, if you do this, when the timer operates, the receiver may display only an error or password entry menu.
- **For Pay-Per-View Programs** - You must order a Pay-Per-View program when you create a timer for it.
- **For Blacked Out Programs** - If you set a timer for a program that is blacked out in your area, when the timer operates the receiver may display only an error.

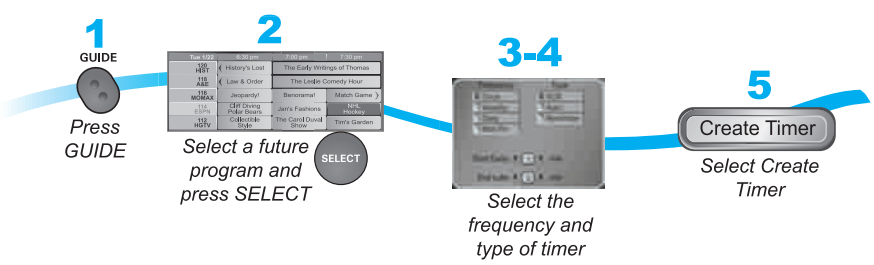
Using the Timers List

1 Press MENU and select Timers (7).

2 When the Timers screen opens, you can edit or delete the timers you have set.

Setting Up an Automatic Timer

You can create an automatic timer for a future event. The following instructions explain the simplest way to set up an automatic timer.



222.book Page 55 Tuesday, July 25, 2006 1:30 PM

1 Find the future program you want to record using the Program Guide or Browse Banner. The program can be a satellite or over-the-air program (see page 77 for instructions on connecting an over-the-air antenna to your receiver). Note that this feature may not work with all over-the-air channels.

2 Select the future event. The Create Timer screen displays.

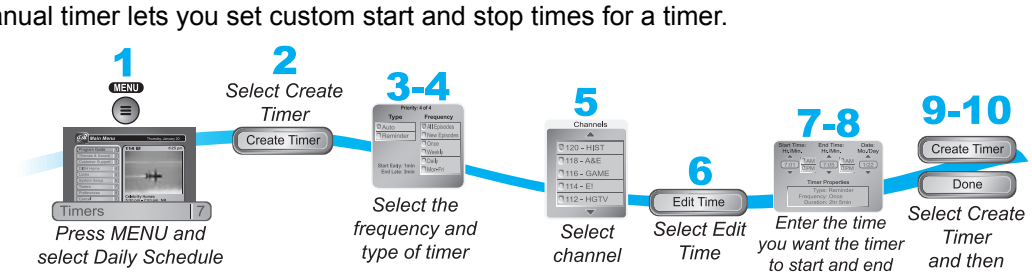
3 Select the Timer Frequency (see page 52 for more details).

4 Select a Timer Type (see page 52 for more details).

5 Select Create Timer to finish making the new timer.

Setting Up a Manual Timer

A manual timer lets you set custom start and stop times for a timer.



1 Press MENU and select Timers (7).

2 Select Create Timer.

3 Select the Timer Frequency (see page 52 for more details).

4 Select a Timer Type (see page 52 for more details).

5 Select the channel (satellite or over-the-air). Use the UP/DOWN ARROWS, PAGE UP/DOWN, or NUMBER PAD to find the channel.

6 Select Edit Time.

7 Set the Start Time and End Time. Include AM/PM for each.

8 Set the Date.

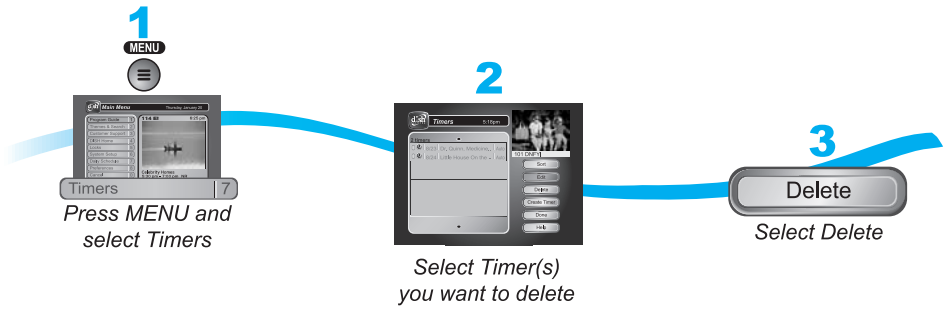
9 Select Create Timer.

10 Select Done.

222.book Page 56 Tuesday, July 25, 2006 1:30 PM

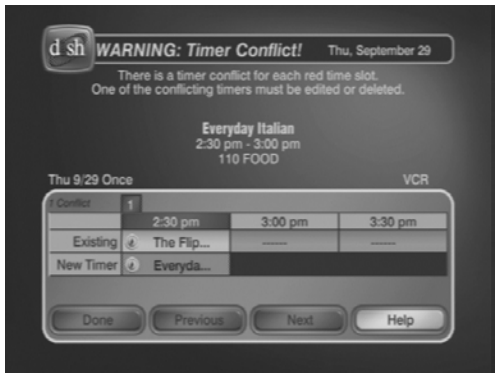
DELETING A TIMER

When you no longer need a timer, you can delete it.



OVERLAPPING TIMERS

If you try to create event timers for overlapping programs, the receiver displays a screen with the dates and times of both programs. The receiver also displays this screen if a program time has changed, causing one timer to overlap another. You must delete or edit one of the timers.



TIPS

- It's very important to leave the receiver enabled to receive updates so that the receiver can have the latest software and Program Guide information. Make sure the Updates feature is enabled as described on page 66.
- Be sure to set up the receiver to control your VCR as described on (adding the section).
- If your VCR does not respond to the receiver's commands, see if you accidentally left the protective film on the receiver's front panel.

222.book Page 57 Tuesday, July 25, 2006 1:30 PM

Remote Control Setup

Chapter 9

Personalizing Your Remote Controls

Use the information in this chapter to learn more about using your remote controls.

- IMPROVING RECEIVER CONTROL
- CONTROLLING OTHER COMPONENTS
- THE RECOVER BUTTON
- SENDING DISCRETE POWER ON AND OFF

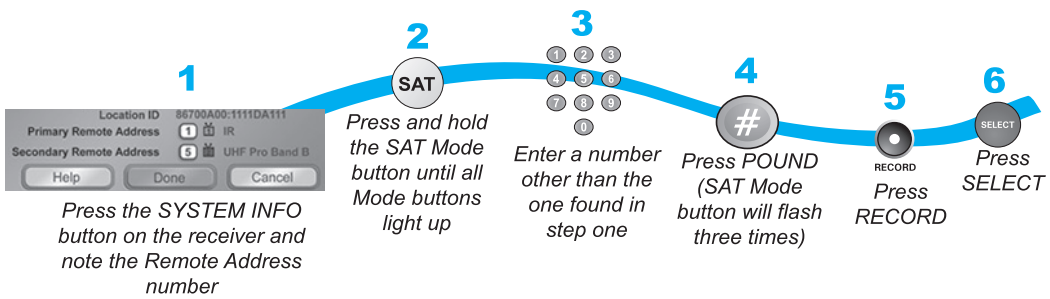
222.book Page 58 Tuesday, July 25, 2006 1:30 PM

IMPROVING RECEIVER CONTROL

These instructions help you improve your remote control settings to best operate your satellite receiver. Use the following instructions to make your remote control operate more efficiently with your receiver.

Changing the Address for Remote Control 2

Because UHF signals travel long distances and go through walls, a neighbor's remote may control your receiver by mistake. To keep this from happening, you can change the remote address. You can also use these instructions to change the address on Remote Control 1.



1 Press SYSTEM INFO on the receiver's front panel. The System Information screen displays on the nearby TV and shows the Remote Address.

Write down the Secondary Remote Address: _____

If changing the address for Remote Control 1, write down the Primary Remote Address: _____

2 Press and hold SAT on your remote control for about three seconds, until all of the mode buttons light up, and then let go of SAT.

3 Use the NUMBER PAD to enter any number between 1 and 16, but not the one you wrote in step 1.

4 Press POUND (#). If you entered the address correctly, SAT will flash three times.

Write down the number you entered: _____

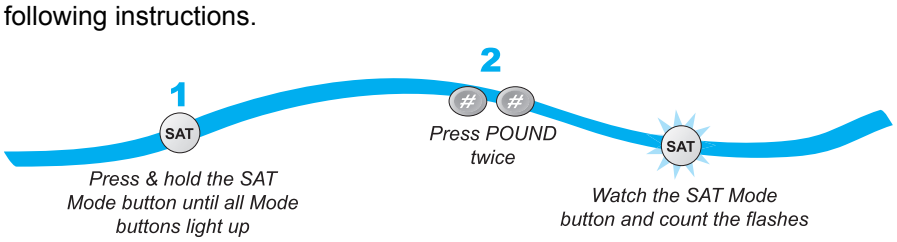
5 Press RECORD. Make sure the Remote Address you see on the System Information screen is the same as the one you entered in step 3. If it isn't, the remote cannot control the receiver.

6 Press SELECT to close the System Information screen.

222.book Page 59 Tuesday, July 25, 2006 1:30 PM

Checking the Remote Control Address

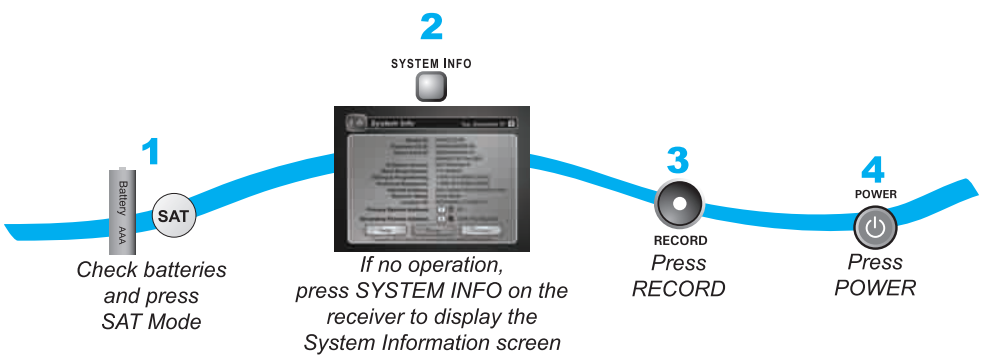
You can see what address is programmed into the remote control by completing the following instructions.



1. Press and hold the SAT mode button for three seconds, until all of the mode buttons light up, and then let go of the SAT button.
2. Press POUND (#) twice. The SAT mode button will flash the same number of times as the address number (three flashes means address 3).

Confirming Remote Control Operation

Complete the following from the nearby TV to make sure the remote operates the receiver:



1. Make sure the remote has fresh batteries and is in SAT mode.
2. Press SYSTEM INFO on the receiver front panel to display the System Info screen on the nearby TV.
3. Press RECORD on the remote control:
   - Remote Control 1 - The Primary Remote Address in the System Info screen changes to match the address preset in your remote control.
   - Remote Control 2 - The Secondary Remote Address in the System Info screen changes to match the address preset in your remote control.
4. Press POWER on the remote controls to turn on/off receiver.

222.book Page 60 Tuesday, July 25, 2006 1:30 PM

Adjusting the Remote Antenna

Be sure to set the remote control antenna (back of the receiver) straight up so you can use the remote control from as far away as possible. Don't let the antenna touch anything.

If your UHF Pro Remote Control isn't working very well from far away, you may be experiencing interference from objects near your receiver. To improve your remote control's range, try the following:

- Place the receiver higher than all of the other equipment in your entertainment center.
- Provide room above the receiver so that the antenna can be installed straight up. If this is not possible, tilt the UHF antenna at about a 30° angle.
- Place the UHF antenna outside the entertainment center by using a coaxial cable to connect the antenna to the receiver.
- Try moving the receiver to other locations.
- Move any nearby over-the-air antennas away from the UHF remote antenna. Do not place an over-the-air antenna on top of your receiver.
- Install a UHF attenuator. See *Installing a UHF Attenuator* in the following section for details.

Changing the UHF Frequency Using the A/B Switch

Your remote has a switch to change the UHF frequency that your remote control uses. It comes preset to the A position but you can change the setting to the B position to lessen the likelihood of any other UHF remote interfering with yours.

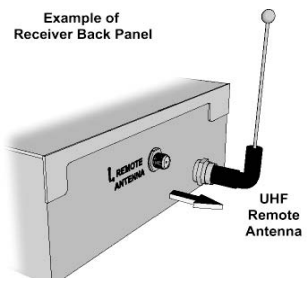
1. Remove the battery cover from the remote control.
2. Use a small screw driver or a paper clip to carefully change the setting.
3. Put the battery cover back on the remote control.
4. Use the SYS INFO button on the front panel to open the **System Information** screen.
5. Press RECORD on the remote control.
6. Make sure the **System Information** screen shows the correct band information:
   - Switch position A - **IR/UHF Pro Band A**
   - Switch Position B - **IR/UHF Pro Band B**

222.book Page 61 Tuesday, July 25, 2006 1:30 PM

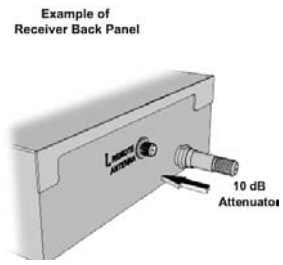
Installing a UHF Attenuator

Unwanted UHF signals may interfere with signals from the remote control to the receiver. To prevent such interference, you can install a 10 dB attenuator (available from many consumer electronics parts stores). Adding this attenuator will help keep out stray UHF signals, but it also cut down how far away you can use the remote control.

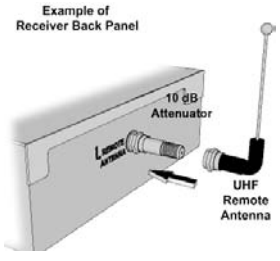
1 Remove the UHF antenna from the UHF Remote Antenna input on the receiver back panel.



2 Attach a 10 dB attenuator to the UHF Remote Antenna input.



3 Attach the UHF antenna to the attenuator.



9

CONTROLLING OTHER COMPONENTS

To use the remote to control other devices (such as a TV, VCR, DVD player, tuner, amplifier, or DISH Network satellite receiver), you must first program it to control these other devices. You can do this by either following the instructions in *Setting Up Using Device Code Tables* on page 63, or the *Setting Up Using Device Codes Scan* procedure described on page 64.

222.book Page 62 Tuesday, July 25, 2006 1:30 PM

Remote Control Modes

Use the remote control's mode buttons, SAT (satellite receiver), TV (for a TV), VCR (for a VCR or a DVD player), and AUX ("auxiliary," for a second TV, a VCR, a tuner, an audio amplifier, or a second DISH Network satellite receiver) to set the remote to the right mode for the device. To change the mode, press the button for the device you want the remote to control. The mode button lights for two seconds to show you've set the remote to that mode.

Limited Mode

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When you use the remote to control your TV in Limited Mode, you will only be able to use TV POWER, MUTE, and VOLUME. Also, when you use the remote to control your VCR in Limited Mode, you will only be able to use POWER and the VCR function buttons.

Turning Limited Mode On and Off

The section *Setting Up Using Device Code Tables* has a step that tells the remote control to go into Limited Mode. You can use this feature to limit the functions of a TV or VCR you control with the remote in TV, VCR, or AUX mode. Here's a simple way to turn Limited Mode on and off anytime:

1. Press and hold the mode button (for example, TV) until all of the mode buttons light. Release the mode button.
2. Press:
   - PAGE UP to turn Limited Mode on.
   - PAGE DOWN to turn Limited Mode off.
3. Press POUND.

Note: Limited Mode is not used with amplifiers.

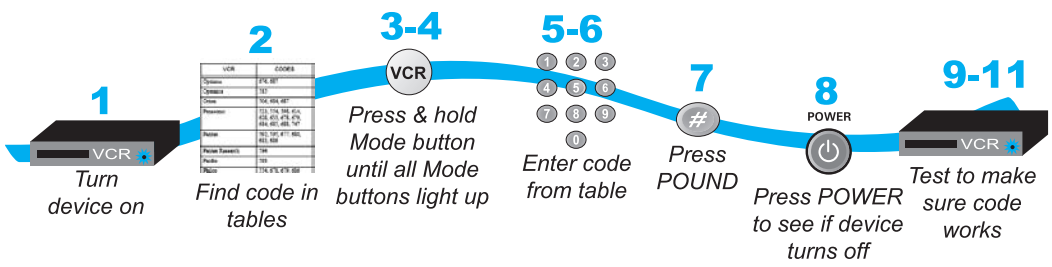
Combination Devices

If you are programming the remote to control a combination device, such as a TV/VCR or a TV/DVD, program the remote control in one mode, and then repeat the procedure in the other mode. For example, to program the remote to control a TV/VCR using code 748, follow the instructions to program the remote to control the TV using code 748, and then repeat the instructions for the VCR using the same code.

222.book Page 63 Tuesday, July 25, 2006 1:30 PM

Setting Up Using Device Code Tables

Set up the remote to control other devices using the device codes listed on page 116. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



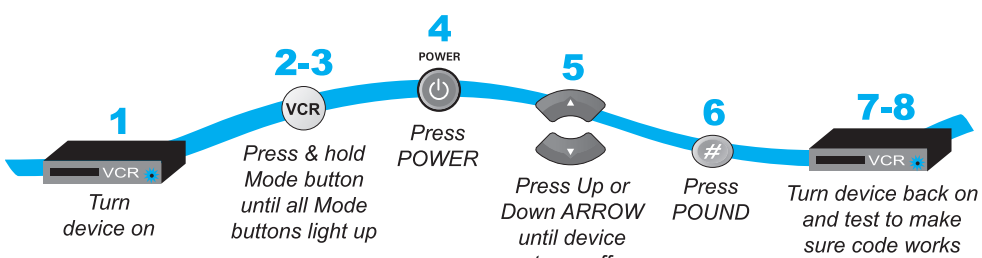
	Instructions	Additional Information
1	Turn the device on.	Use the device's front panel buttons or its remote control.
2	Find the brand name of the device in the tables starting on page 116.	If the brand isn't listed, see *Setting Up Using Device Codes Scan* on page 64.
3	Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold TV for a TV until all of the other mode buttons light. When you let go, TV will flash.
4	*For AUX mode only*. Press 0 for a second TV, or 1 for a second VCR, or 2 for a tuner, or amplifier.	This step is for programming which kind of device that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 5.
5	Enter one of the three-digit device codes from the table using the number buttons.	The three-digit device code should be for the brand name of your device that you found in step 2.
6	If you want to program Limited Mode, press 1. If not, skip to step 7.	See *Limited Mode* for more information.
7	Press POUND (#).	If you entered the code correctly, the mode button flashes three times.
8	Press POWER to turn off the device. If the device does not turn off, go to step 10.	If the code works, the device should turn off.
9	Turn the device back on and try some other buttons to make sure they work. If the code works for other buttons, stop here.	Sometimes POWER works when other buttons don't. If in Limited Mode, try VOLUME or MUTE.

222.book Page 64 Tuesday, July 25, 2006 1:30 PM

Instructions	Additional Information
10 If the code doesn't work, repeat steps 3 through 9 with another device code from the tables.	Try every code listed for your brand until one works for your device.
11 If you can't find a code that works try, *Setting Up Using Device Codes Scan* that follows.	

Setting Up Using Device Codes Scan

If the code for your device is not listed in the tables starting on page 116, use this procedure to scan the remote control's memory for the device code. In the instructions below, the column on the left contains the instructions and the column on the right provides additional information.



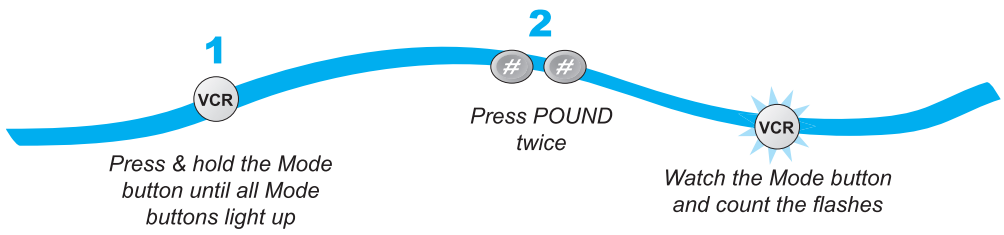
Instructions	Additional Information
1 Turn the device on.	Use the device's front panel buttons or its remote control.
2 Press and hold the mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold TV for a TV until all of the other mode buttons light. When you let go, TV will flash.
3 *For AUX mode only*. Press 0 for a second TV, or 1 for a second VCR, or 2 for a tuner, or amplifier. Then press the STAR (*) button.	This step is for programming which kind of device that should be programmed in AUX mode. If you're not programming in AUX mode, skip to step 4.
4 Press POWER.	This puts your remote in the scan mode.

222.book Page 65 Tuesday, July 25, 2006 1:30 PM

Instructions	Additional Information
5 Press the UP or DOWN ARROW repeatedly until the device turns off.	As you press the UP or DOWN ARROW, the remote tries each code in the memory to see if it can turn off your device. When the device turns off, you have found a code that might work. **Note**: The mode button for the device will flash rapidly eight times when you've scanned all the codes for that device.
6 Press POUND (#).	The mode button flashes three times if you have entered the code correctly. This stores the code you found.
7 Turn the device back on and try some other buttons to make sure they work.	Try some other buttons to make sure they work. Sometimes POWER works when other buttons don't. If using Limited Mode, try VOLUME or MUTE.
8 If necessary, repeat this procedure until you've tried all the codes.	You may need to repeat the scan to find the best code for your device.

Checking the Device Codes

You can find out what device code you've set for each remote control mode (TV, VCR, and AUX).



Instructions	Additional Information
1 Press and hold the appropriate mode button until all the other mode buttons light up, and then let go of the button. The mode button flashes.	For example, hold TV for a TV until all of the other mode buttons light. When you let go, TV will flash.
2 Press the Pound (#) button twice. Watch the mode light to determine your code. The mode button flashes the number for each digit of the device code, with a pause between the groups of flashes. A quick flash is for zero.	For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

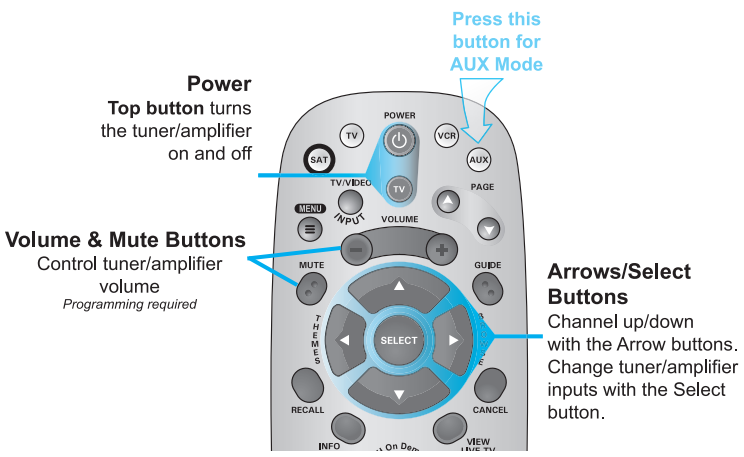
222.book Page 66 Tuesday, July 25, 2006 1:30 PM

Instructions	Additional Information
For AUX mode: The first group of flashes tells you what the AUX mode controls. A quick flash (zero) before the three-digit code is for a TV; one regular flash is for a VCR; and two flashes is for a tuner, or amplifier.	For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.
For a satellite receiver programmed in AUX mode: The AUX mode button will flash the same number of times as the address number.	For example, if the receiver address is 3, the AUX mode button flashes three times.
For Limited Mode: If you have programmed a TV or VCR in Limited Mode, the mode button flashes once at the end of the flash sequence.	For example, if the TV code is 570, the AUX mode button flashes once quickly (indicating 0 for TV), pauses, flashes five times, pauses, flashes seven times, pauses, flashes once quickly, and then flashes once (indicting Limited Mode).

Controlling a Tuner/Amplifier

Use the following remote control buttons to control a tuner or amplifier. When the remote control is set up as described on pages 61 and 67, press the AUX mode button to set the remote to AUX mode. The AUX mode button will stay lit for two seconds to show you've set the remote to AUX mode. Make sure to keep the remote in AUX mode to use the following buttons.

To use the features described in this section, make sure you are in AUX mode by pressing the AUX Mode button. (AUX)

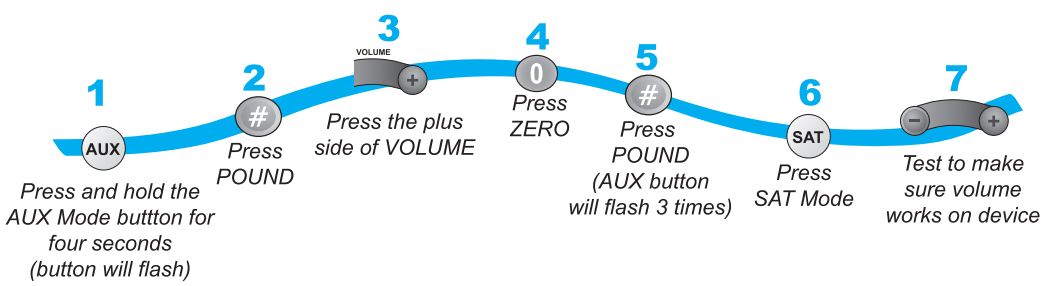


222.book Page 67 Tuesday, July 25, 2006 1:30 PM

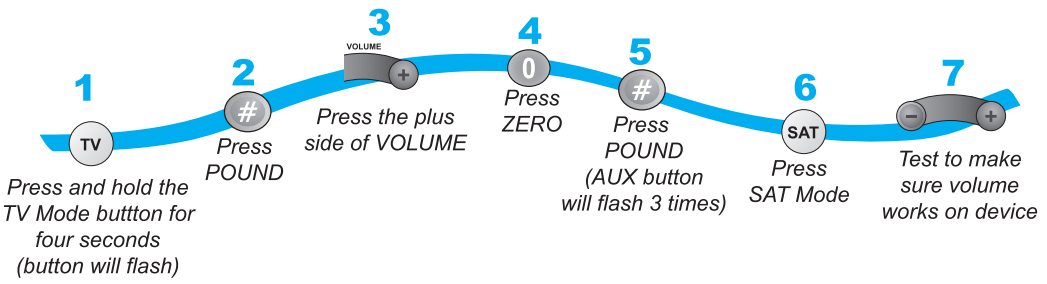
Switching Between TV and Device Volume Adjustment

When the remote control is setup to operate your TV, the VOLUME and MUTE buttons adjust your TV volume. If you prefer the volume and mute functions of the remote to adjust the volume of a remote-controllable audio receiver or amplifier instead of the TV, this capability can be set up using the AUX mode of the remote control.

To set the remote to control the device's volume (steps 1-5 set up the remote and steps 6-7 make sure the remote works correctly):



To set the remote back to control the TV volume (steps 1-5 set up the remote and steps 6-7 make sure the remote works correctly):



Programming to Control a Second Satellite Receiver

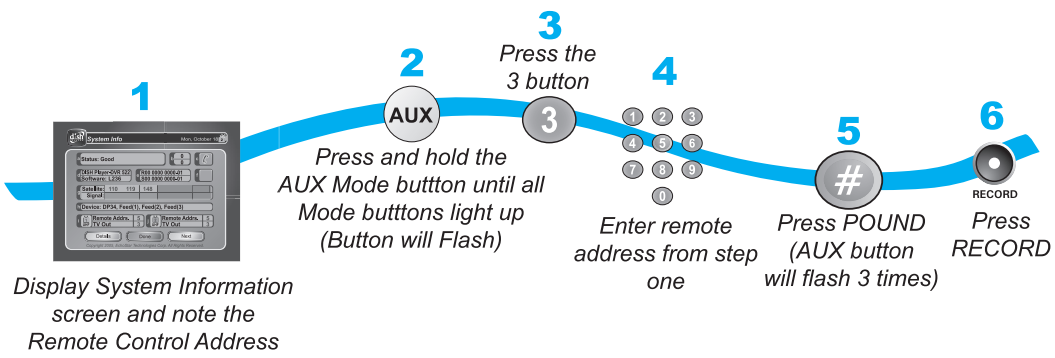
If you have another DISH Network satellite receiver installed, you can use this remote in AUX mode to control it along with your new receiver. When you program the remote to control this other receiver, the remote will send out IR and UHF (not UHF Pro) signals to the receiver. You can program the remote to control any other DISH Network satellite receiver, except for following:

- TV2 on DISH 322, ViP222, ViP622 DVR, DISH Player-DVR 522, 625 and 942
- DishPlayer 7100/7200

222.book Page 68 Tuesday, July 25, 2006 1:30 PM

Chapter 9

The Recover Button



1 Turn on the other receiver and display the System Info screen as described in the user's guide for information on how to display the screen).

Write the address: _____

2 Press and hold AUX until all the other mode buttons light up, and then let go of the button. AUX flashes.

3 Press the 3 button.

4 Use the NUMBER PAD to enter the address you wrote in step 1.

5 Press POUND (#). AUX blinks three times.

6 Press RECORD to make sure the address in the remote matches the address on the receiver.

THE RECOVER BUTTON

Use RECOVER if you suddenly have a snowy, blue, or black screen on your TV and cannot get the picture back from your satellite receiver. When you press RECOVER as described below, the remote control sends commands to your TV to change channels or video inputs to get back to watching satellite programming. This procedure works only if you have accidentally changed the TV channel or video input. It does not recover lost satellite signal (See *Troubleshooting* on page 104 for information on solving problems).

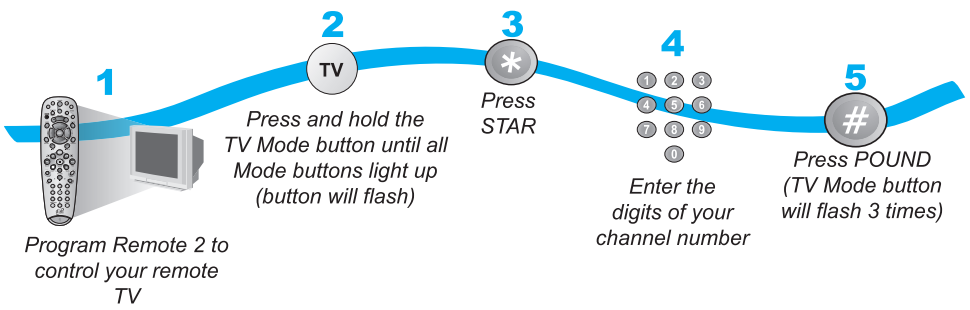
Note: The remote must be programmed to control the TV (and VCR, if applicable) for RECOVER to work as described.

Note: RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of RECOVER. You may need to press RECOVER up to 30 times to recover your satellite TV video. If RECOVER is programmed to a specific channel (see page 69), RECOVER will tune the TV to the specific channel (for example, channel 60).

222.book Page 69 Tuesday, July 25, 2006 1:30 PM

Programming the Recover Button for Remote Control 2

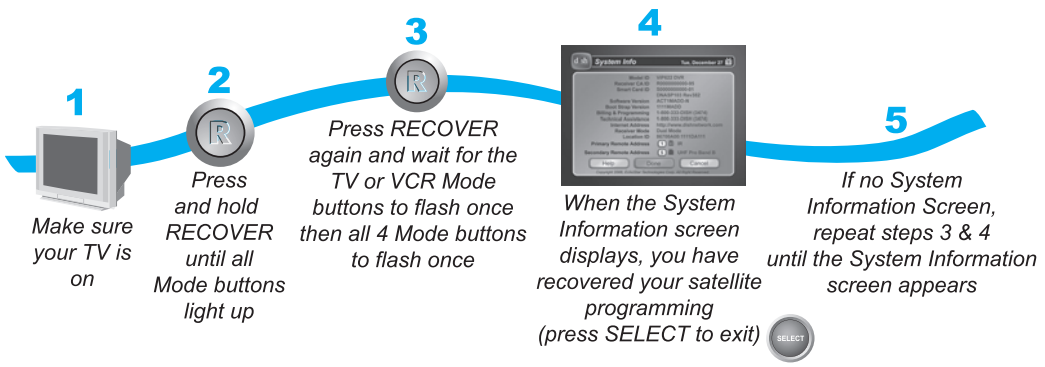
When your Remote Control 2 is shipped from the factory, RECOVER is set up to restore satellite TV viewing by tuning your TV (or VCR) to channel 3, 4, and other inputs. However, to use RECOVER with your remote TV (or VCR), you need to program RECOVER with the specific channel (for example, channel 60) that you use to watch TV2 programming. The following instructions describe how to program RECOVER to tune your remote TV (or VCR) back to a selected channel.


1
Program Remote 2 to control your remote TV
2
TV
Press and hold the TV Mode button until all Mode buttons light up (button will flash)
3
Press STAR
4
Enter the digits of your channel number
5
Press POUND (TV Mode button will flash 3 times)

Using the Recover Button

The following setup is required to use RECOVER:

- The remote control must be set up to control the TV and, if installed, the VCR.
- If a VCR is installed, make sure it is connected as shown on page 94.
- On a remote TV, RECOVER must be programmed to tune your remote TV to the specific channel to receive TV2 programming (for example, channel 60), using the instructions on page 69.


1
Make sure your TV is on
2
Press and hold RECOVER until all Mode buttons light up
3
Press RECOVER again and wait for the TV or VCR Mode buttons to flash once then all 4 Mode buttons to flash once
4
When the System Information screen displays, you have recovered your satellite programming (press SELECT to exit)
5
If no System Information Screen, repeat steps 3 & 4 until the System Information screen appears

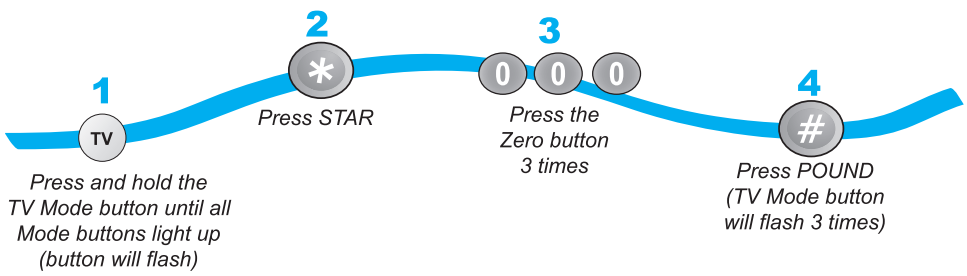
Note: Press any remote control button other than RECOVER to end this procedure.

Note: If RECOVER is not programmed to a specific channel, RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of RECOVER. You may need to press RECOVER up to 30 times to recover your satellite TV video. If RECOVER is programmed to a specific channel (see page 69), RECOVER will tune the TV to the specific channel (for example, channel 60).

222.book Page 70 Tuesday, July 25, 2006 1:30 PM

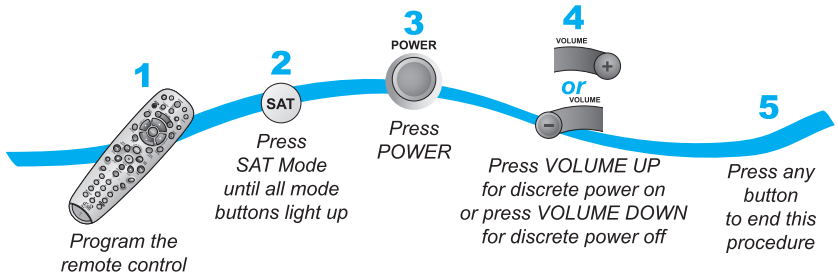
Removing the Recover Button Channel Programming

The following instructions describe how to reset RECOVER to restore satellite TV viewing by tuning your TV (or VCR) to channel 3, 4, and other inputs.



SENDING DISCRETE POWER ON AND OFF

Installers use Remote control discrete power ON and power OFF IR commands when programming macro commands into universal remotes. Using an ON-only or OFF-only command is more effective than a toggle ON/OFF command when trying to make sure the satellite receiver is reliably in one state or the other. To use discrete power commands, complete the following:



222.book Page 71 Tuesday, July 25, 2006 1:30 PM

TIPS

- If using a specific channel for TV2 (for example, channel 60), TV2's remote control must be programmed with a TV2 channel/input before you can use RECOVER.
- Place the channel sticker on the remote TV and write down the channel you use to watch DISH Network programming. The stickers are inside the front cover of this guide.
- If you don't want to accidentally change channels on your TV or VCR, try programming the remote control in Limited Mode as described on page 62.
- Make sure you have a UHF antenna connected so you can use Remote Control 2. See page 15 for instructions.

QUESTIONS

- **My remote doesn't control my receiver or other components. What should I do?**
  - Put the remote control is in the correct mode (page 62).
  - Check the batteries (page 15).
  - Check the remote control address (pages 59 and 65).
  - Check the UHF antenna (page 15).
  - Adjust the UHF antenna (page 60).
- **Why does my receiver change channels or display menus at random?** Your neighbor may have their remote control set on the same address. Change the address on your remote control and receiver as described on page 58. If that doesn't help, you may have to install a UHF attenuator as described on page 61.

222.book Page 72 Tuesday, July 25, 2006 1:30 PM

Chapter 9

Questions

Notes

Chapter 10 Two Color.fm Page 73 Tuesday, July 25, 2006 3:15 PM

Receiver Customization

Chapter 10

Personalizing Your Satellite Receiver

Take a look through this chapter and you'll find out how to change settings on the receiver to make it just the way you like it. As an added bonus, if you find out that you don't like how it turned out, you can reset the receiver to the way it was when you got it.

Here's what's in this chapter:.

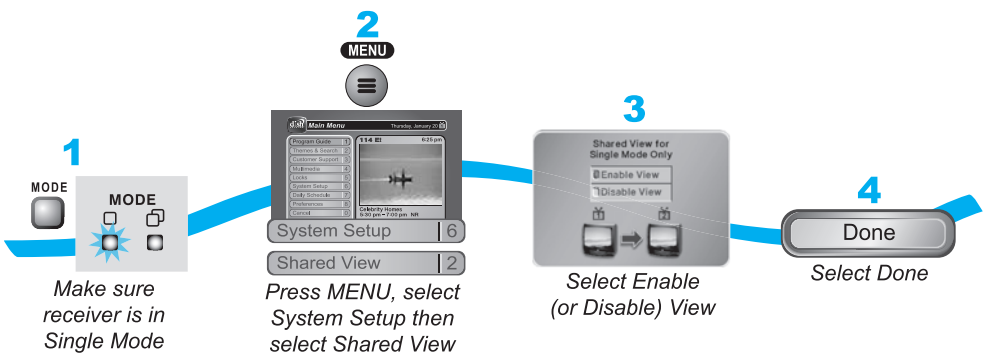
- Using Shared View
- Modulator Setup
- Using Caller ID
- Changing Languages
- Using Closed Captioning
- Using Dolby® Surround Sound
- Changing the Program Guide Order
- Changing the Guide Display
- Resetting to Factory Defaults
- Scheduling Receiver Updates
- Inactivity Standby

Chapter 10

Using Shared View

USING SHARED VIEW

Shared View is a feature of Single Mode that lets you activate the TV2 audio and video outputs to display the same programming as the TV1 outputs. While using this feature, both the Remote Control 1 and Remote Control 2 for your satellite receiver can control what is displayed on all TVs connected to the system. This feature is available only in Single Mode.



Note: Make sure you are using Remote Control 1 and TV1 because you cannot enable or disable this feature using Remote Control 2.

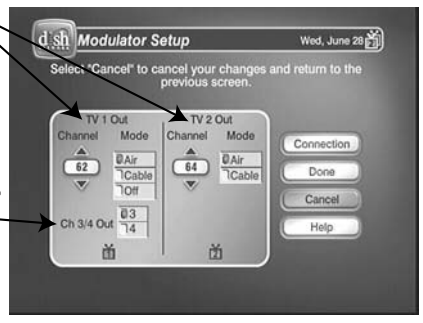
Note: If you do not want to display programming on any other TV besides TV1 and you do not want Remote Control 2 to control the receiver, select Disable View. After you select Done, TV2 will show a screen that says Shared View is currently disabled.

MODULATOR SETUP

If you have TV1 and TV2 connected to the receiver with coaxial cables (see page 83), you can decide which channel you'd like to use to view your DISH Network programming. If you have the system locked, you'll have to enter the password to enable TV1's output on this screen. Make sure your TV can tune to the channel you pick before you change the setting on this screen.

Set the channel and mode for TV1 and TV2. If the system is locked, you'll be prompted to enter your password .

Set the channel and mode for TV1 if you use coaxial connection CH 3-4.



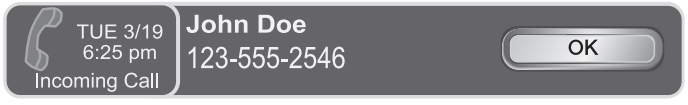
Chapter 10 Two Color.fm Page 75 Tuesday, July 25, 2006 3:15 PM

USING CALLER ID

Caller ID displays on your TV the names of people and/or telephone numbers as they call you if you subscribe to Caller ID from your local phone company. To use this feature, make sure you have a phone line connected to the receiver and that the Caller ID feature is enabled.

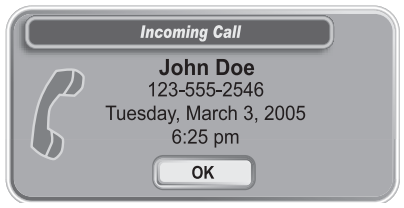
Caller ID Screens

When you receive a call, you will see a Caller ID popup screen.



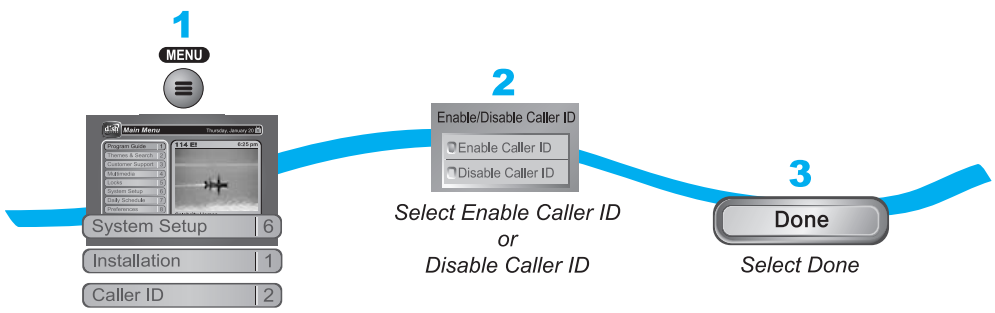
You can select OK to eliminate the message. If you do nothing, it will disappear after 20 seconds.

If you are using a menu when a call comes in, you will see a different Caller ID popup screen.



Setting Up Caller ID Display

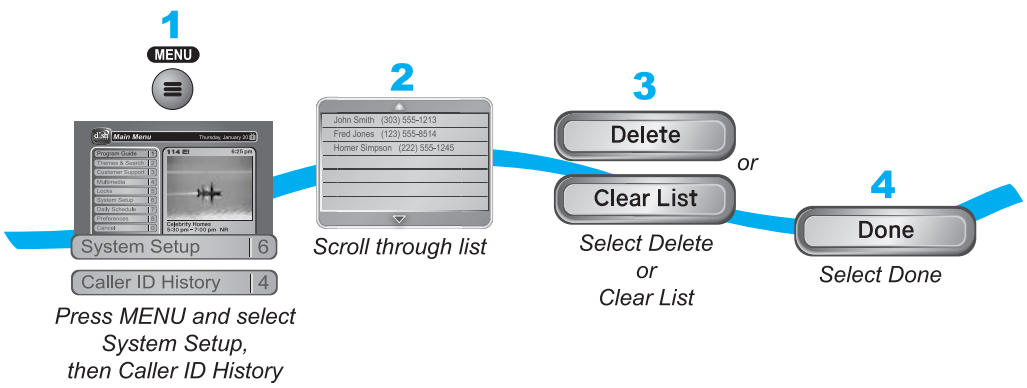
Use these instructions to enable or disable Caller ID.



Chapter 10 Two Color.fm Page 76 Tuesday, July 25, 2006 3:15 PM

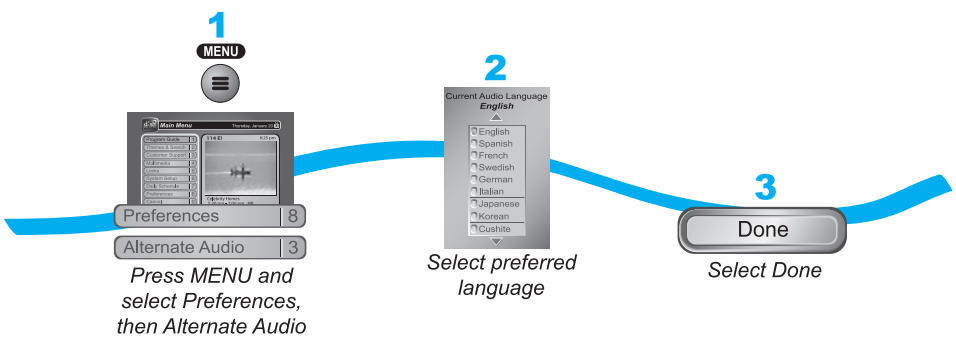
Using Caller ID History

Use the following instructions to view and delete numbers from your Caller ID History.



CHANGING LANGUAGES

You may be able to change the language of some programs. An alternate language may not be available for all programs. Some programs, such as movies, indicate at the beginning whether an alternate language or descriptive video is available. An alternate language applies only to the audio part of a program and does not change the language used in the menus displayed by the receiver. Descriptive video—not included on all channels and programs—is a feature for the visually impaired that describes what is happening during a program.



Chapter 10 Two Color.fm Page 77 Tuesday, July 25, 2006 3:15 PM

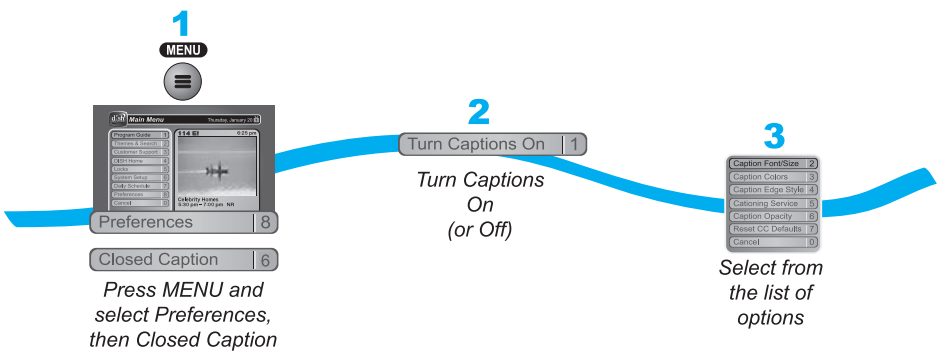
USING CLOSED CAPTIONING

The receiver has many options for Closed Captioning (CC), which allow you to change the feature to suit your needs. Use the following questions and table to determine if CC is available at your TV location:

1. Are you watching SD or HD programming?
2. Are you in Single or Dual Mode? Refer to page 15 for information on switching modes.
3. Are you watching TV1 or TV2?

Programming Type	Single Mode	Dual Mode
SD Programming	TV1 - CC available through the receiver. TV2 - CC available through the receiver.	TV1 - CC available through the receiver. TV2 - CC must be enabled on the TV.
HD Programming	TV1 - CC available through the receiver. TV2 - CC available through the receiver.	TV1 - CC available through the receiver. TV2 - CC must be enabled on the TV.

Note: Not all programming contains CC information.



- **Caption Font/Size (2)** - Select the font and size that makes the captioning comfortable to read. When finished making changes, select Done.
- **Caption Colors (3)** - Sets the background, letter, and edge colors. Choose the color combinations that makes the captioning easy to see. When finished making changes, select Done.
- **Caption Edge Style (4)** - Sets the edge style of the closed captioning text. When finished making changes, select Done.
- **Captioning Service (5)** - Selects the service you want to use. When finished making changes, select Done.
- **Caption Opacity (6)** - Choose from Provider, Transparent (see-through), Translucent (semi-see-through), Solid, and Flashing. When finished making changes, select Done.
- **Reset CC Defaults (7)**.

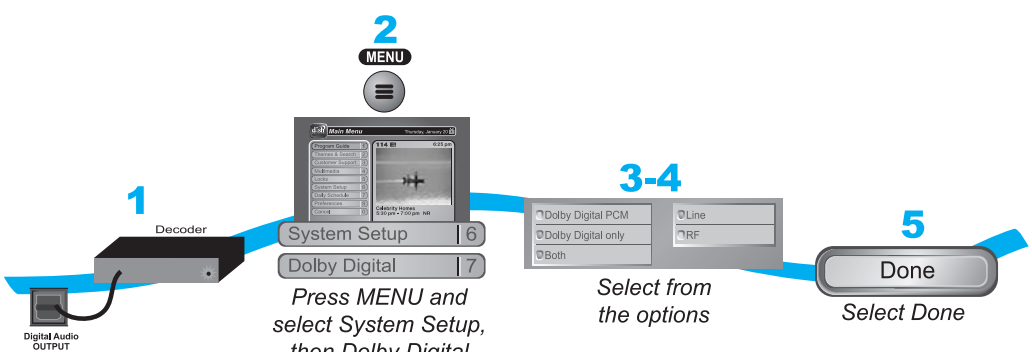
Chapter 10 Two Color.fm Page 78 Tuesday, July 25, 2006 3:15 PM

USING DOLBY® SURROUND SOUND

Dolby Digital gives you the capability to enjoy programs in surround sound. An external decoder is required to enjoy this feature. Refer to your decoder user's guide.

Note: Not all programs contain a Dolby Digital sound track.

The receiver uses an optical port for outputting digital audio. The optical output can provide two audio data types: Dolby Digital and Linear PCM (only Dolby Digital can provide full 5.1-channel sound).



Connect receiver to an external decoder

Press MENU and select System Setup, then Dolby Digital

Select from the options

Select Done

- **Dolby Digital Only** - Select this option if the stereo system or amplifier can decode only Dolby Digital and will not process Linear PCM signals. See your amplifier's owner's manual for more details on the amplifier (and see the following table).
- **PCM Only** - Select this option only if the stereo system or amplifier cannot decode Dolby Digital signals.
- **Dolby Digital/PCM** - Select this option only if the stereo system or amplifier can decode both Dolby Digital and Linear PCM signals.

The audio output is also dependent on what is present in the program you are watching. The table below shows what type of output you will hear:

	Signal Present in Program		
Optical Output Setting	**Dolby Digital**	**PCM**	**Both**
Dolby Digital Only	Dolby Digital	PCM	Dolby Digital
PCM Only	PCM (downmix)	PCM	PCM
Dolby Digital/PCM	Dolby Digital	PCM	Dolby Digital

Note: When both audio signals are present in the program, the receiver defaults to Dolby Digital output unless you have selected PCM Only.

Note: If you have selected Dolby Digital Only but there is only PCM audio in the program, you will hear nothing. This also applies to the analog audio outputs.

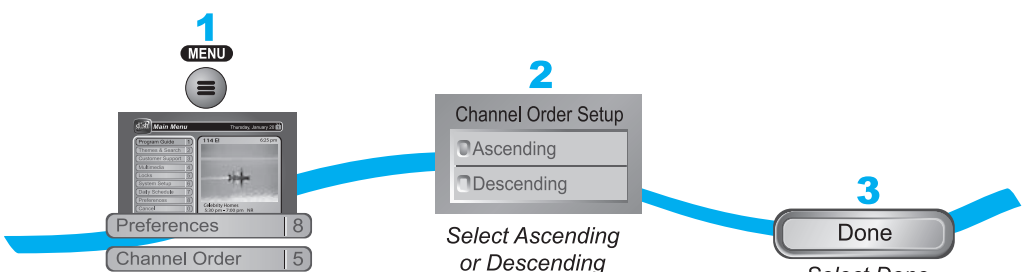
Chapter 10 Two Color.fm Page 79 Tuesday, July 25, 2006 3:15 PM

- **Line Mode**. When you use this setting, in comparison to RF Mode, the dynamic range is wider, which makes the music and loud noises louder, but voices quieter.
- **RF Mode**. When you use this setting, in comparison with Line Mode, the dynamic range is narrower, which makes music and loud noises quieter, but voices louder.

CHANGING THE PROGRAM GUIDE ORDER

You can set up the Program Guide to list channels in descending order, with the highest channel number at the bottom, or in ascending order, with the highest channel number at the top.

Note: If you do not set a channel order, the Program Guide lists the channels in descending order.



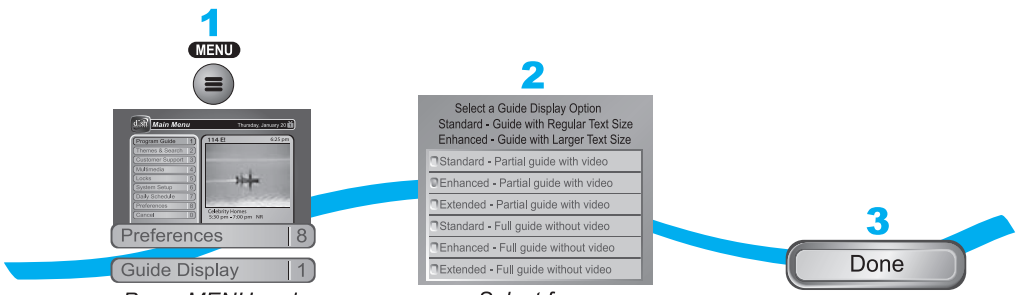
Press MENU and select Preferences, then Channel Order

Select Ascending or Descending

Select Done

CHANGING THE GUIDE DISPLAY

The receiver comes set to display the Program Guide with video in the upper right corner. However, you can change the way the Program Guide displays.


1
MENU
Preferences 8
Guide Display 1
2
Select a Guide Display Option
Standard - Guide with Regular Text Size
Enhanced - Guide with Larger Text Size
Standard - Partial guide with video
Enhanced - Partial guide with video
Extended - Partial guide with video
Standard - Full guide without video
Enhanced - Full guide without video
Extended - Full guide without video
3
Done

Press MENU and select Preferences, then Guide Display

Select from the guide display options

Select Done

Chapter 10 Two Color.fm Page 80 Tuesday, July 25, 2006 3:15 PM

- **Standard - Partial Guide with Video**. This option is preset when you first set up the receiver. The Program Guide displays video in the upper right corner and 1.5 hours of schedule per page.
- **Enhanced - Partial Guide with Video**. Choose this option if you'd like larger text on your Program Guide. The Program Guide displays video in the upper right corner and one hour of schedule per page.
- **Extended - Partial Guide with Video**. Choose this option if you'd like to see video in the upper right corner and three hours worth of schedule per page on the Program Guide.
- **Standard - Full Guide without Video**. Choose this option if you'd like to see more channels per page on the Program Guide.
- **Enhanced - Full Guide without Video**. Choose this option if you'd like to see more channels per page in large text on the Program Guide.
- **Extended - Full Guide without Video**. Choose this option if you'd like to see more channels and three hours of schedule per page on the Program Guide.

Resetting to Factory Defaults

You can reset the receiver to discard any changes you have made to the receiver, except for remote control address settings and locks. Resetting the receiver to factory default settings also discards all Favorite Lists except the All Chan, All Sub, and All HD lists.

If you have set any locks on the receiver, and the receiver is locked, these locks will be kept. If the receiver is unlocked, any such locks will be lost. You cannot reset the receiver to default settings to discard a password you have forgotten. No one but a Customer Service Representative can reset the receiver to bypass a receiver lock.

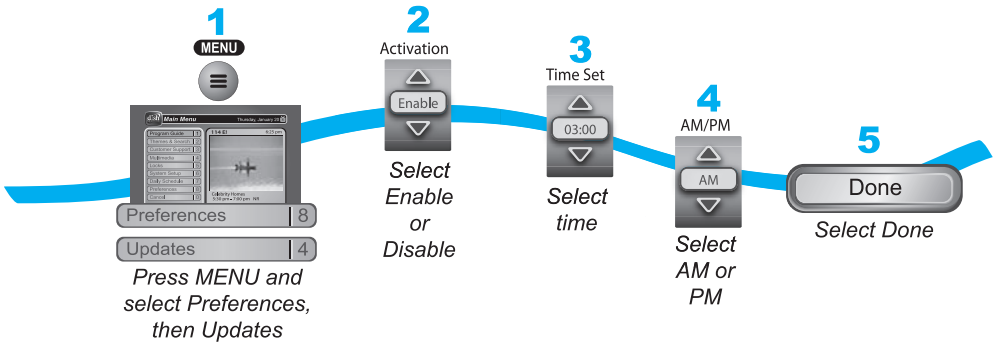
1. Press MENU, select System Setup (6), and then Factory Defaults (6). The receiver displays a Warning message to confirm that you want to reset the receiver's preferences.
2. Select Yes.

Chapter 10 Two Color.fm Page 81 Tuesday, July 25, 2006 3:15 PM

SCHEDULING RECEIVER UPDATES

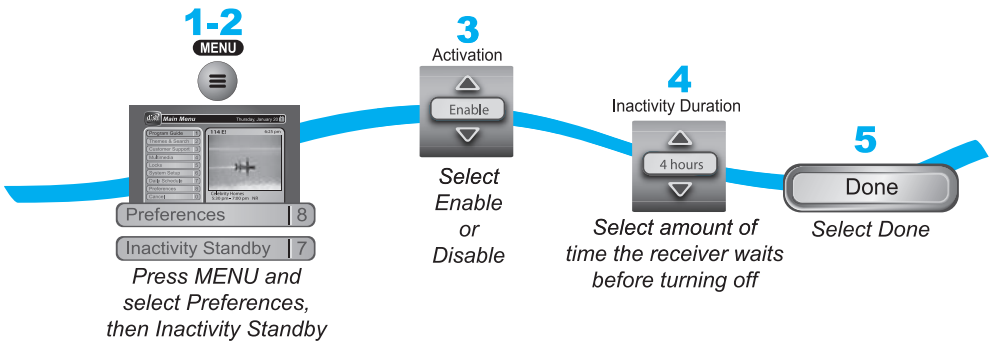
The receiver comes scheduled to update the Program Guide at 3:00 am every day. This section describes how to change the Updates settings. Keep this feature enabled so that your Program Guide and software remain current.

Note: This feature does not interfere with scheduled timers.



INACTIVITY STANDBY

If your receiver is on for a preset period of time without any activity (for example, no channel changes), the Inactivity Standby feature turns off the receiver so that you'll always have the latest Program Guide. Enabling this feature (recommended) also improves the reliability of your receiver.



Note: Select Defaults to reset the changes you've made to this feature.

Chapter 10 Two Color.fm Page 82 Tuesday, July 25, 2006 3:15 PM

TIPS

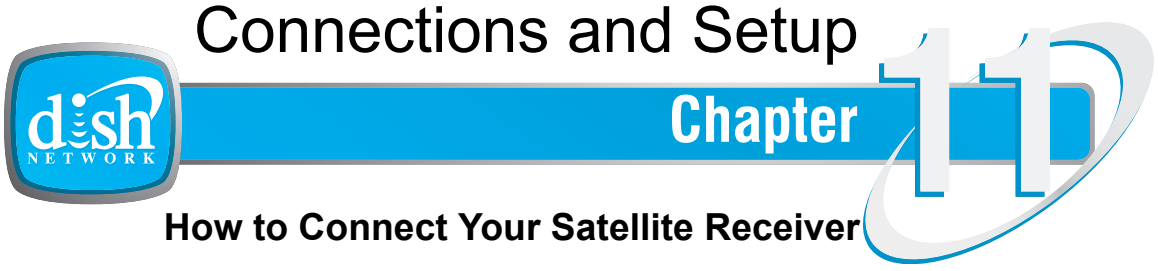
- To take full advantage of Dolby Digital 5.1 surround sound, you need an optical cable and a stereo that supports this feature.
- Be sure to have the receiver connected to an active phone line and have Caller ID service from your phone company to use the Caller ID feature on this receiver.

QUESTIONS

- **Why is my audio in another language?** You may have selected an alternate language. See the instructions on page 76 to change your preferred language.
- **How can I change the channel order in the Program Guide?** You can switch from ascending order (lowest to highest) or descending order (highest to lowest) by following the instructions on page 79.

Chapter 11 Two Color.fm Page 83 Wednesday, August 2, 2006 1:00 PM

Connections and Setup



How to Connect Your Satellite Receiver

Do you have a handful of cables and a head full of questions? This chapter is the perfect place to find out how to connect the receiver to all kinds of equipment. You'll find this chapter particularly helpful if you decide to move your receiver or if you get a new TV, VCR, or DVD player.

- Connecting to the Nearby TV (TV1)
- Connecting to the Remote TVs (TV1 or TV2)
- Connecting to Your Dish Antenna
- Connecting the Phone Line
- Connecting a VCR to the Remote TV
- Connecting Over-the-Air Antenna
- Using Troubleshooting Tools

Chapter 11 Two Color.fm Page 84 Wednesday, August 2, 2006 1:00 PM

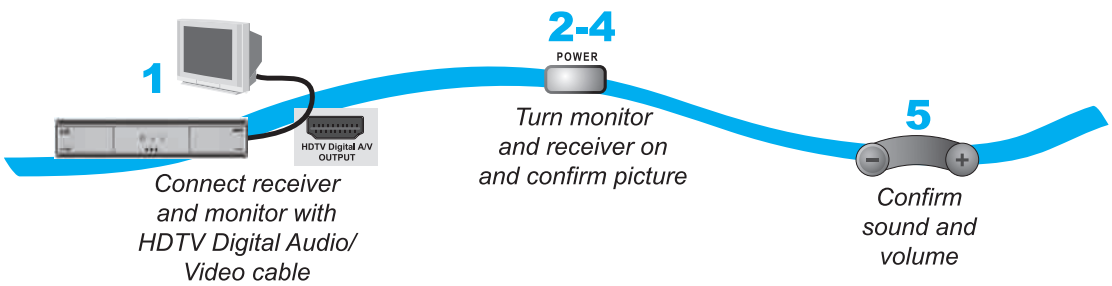
CONNECTING TO THE NEARBY TV (TV1)

This section describes how to connect receiver TV1 output ports to a nearby TV. Select one of the following methods.

Note: If you would like to put the receiver in a remote location (closet, cabinet, etc.), be sure to get the replacement remote control that uses UHF Pro signals to control TV1. Call your DISH Network retailer or go to www.dishnetwork.com, select Products and Services, and then click on Accessories.

HDMI Connections

The HDMI connection provides high-quality audio and video to your HDTV or HD Monitor in one cable.



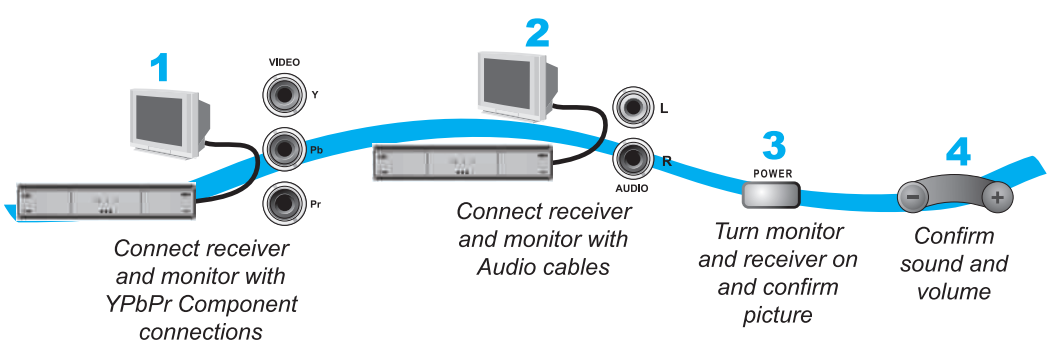
1. Connect an HDMI cable between the receiver and HDTV set or monitor.
2. Turn on your receiver and TV using the front panel buttons.
3. Confirm that you are getting a picture from the receiver. Consult your HDTV user's guide if you need to change your HDTV to display from the HDMI input.
4. If you do not see a picture, see *No Picture on the nearby TV* on page 85. Refer to *Setting Up to Display in HD* on page 86.

   Note: In most cases connecting the HDMI cable will provide plug-and-play control of the monitor's display resolution and other settings. However, your HDTV may require selecting a different format to display from the receiver during setup.
5. Turn up the volume on your HDTV and confirm you have sound. If you don't have sound, your system may require you to connect audio (red and white) RCA-type cables between the receiver Audio Outputs and audio input connections.

Chapter 11 Two Color.fm Page 85 Wednesday, August 2, 2006 1:00 PM

YPBPR Connections

The YPbPr connections provide high-quality video to your HDTV or HD monitor.



1. Connect between the YPbPr component connections on the receiver and the nearby TV using component video cables.
2. Connect audio (red and white) RCA-type cables between the receiver Audio Outputs and audio input connections that go with the YPbPr connectors on your HDTV or monitor.
3. If you do not see a picture, change the resolution setting on the receiver as described on page 86.
4. Turn up the volume on your HDTV and confirm you have sound. Check the RCA-type connections if you don't have sound.

No Picture on the Nearby TV

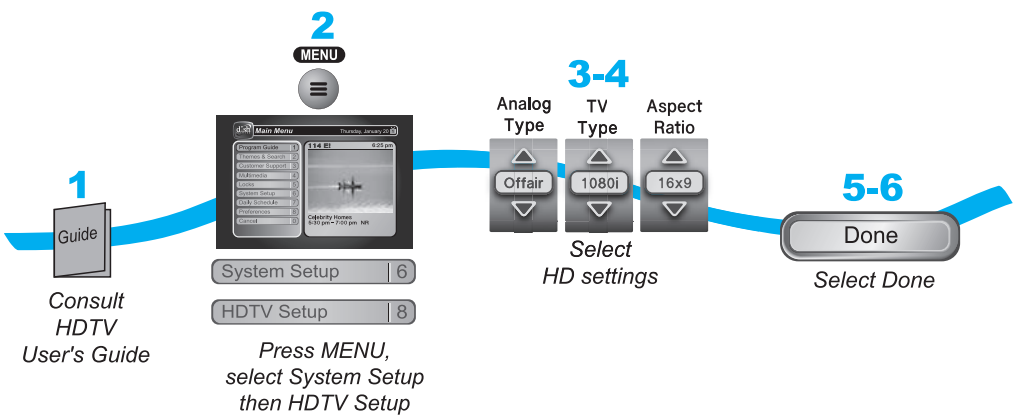
This section will help you make a picture on the nearby TV in the event that you could not do so in the previous sections.

1. Connect RCA-type cable connections between the receiver TV1 Out and the nearby TV.
2. Make sure the receiver and nearby TV are on.
3. Make sure the nearby TV is set to use the RCA-type inputs. Look on the back of your HDTV and consult your HDTV user's guide.
4. Change the HDTV settings as described on page 86.
5. Switch to the nearby TV to display from the HD inputs you select in the previous sections. If you have a picture from TV1, you are finished.
6. Repeat steps 4 and 5 until the nearby TV displays video from the receiver.

Chapter 11 Two Color.fm Page 86 Wednesday, August 2, 2006 1:00 PM

Setting Up to Display in HD

Once the receiver has been activated with qualifying DISH Network programming, you will be able to receive HD programs to watch. Use the following steps to select the desired HDTV format.



1. Consult your HDTV user's guide for the HD format resolution that the TV supports (1080i or 720p).
2. Press MENU, select System Setup (6), and then HDTV Setup (8) to open the receiver HDTV Setup screen.
3. Select the HD format settings (Analog Type and TV Type) that matches the format your TV supports.
4. While in this menu, select the Aspect Ratio option that matches your TV:
   - 16x9 is the setting for wide screen HDTV display.
   - 4x3 #1 is the setting to use on a 4x3 TV which uses vertical compression. When fed with a 16x9 program, a compatible TV automatically makes the picture letterbox format (black bars top and bottom), to preserve the correct horizontal and vertical proportions.
   - 4x3 #2 is the setting to use on a 4x3 TV which does NOT have internal vertical compression. When fed with a 16x9 program, such a TV will not show black bars at the top and bottom, and the picture will appear tall and skinny.
5. Press Done.
6. If required, set up the HDTV to display in the format you desire. Some HDTVs will automatically adjust to the resolution setting of the receiver.

Chapter 11 Two Color.fm Page 87 Wednesday, August 2, 2006 1:00 PM

CH 3-4 Out

Use these instructions if you'd like to connect your receiver to an SD television.

1. Connect a coaxial cable from the CH 3-4 output on the receiver to the nearby TV's tuner port.
2. Place the white CH 3-4 sticker on the cable near where the cable connects to the receiver (the stickers are inside the front cover of this guide).
3. Plug in the power cord for the receiver.
4. Turn on the receiver with the front panel power button and make sure the TV1 indicator is lit.
5. Turn on the nearby TV.
6. Tune the TV to channel 3. Confirm that you are getting a picture from the receiver.
7. If you do not see the Point Dish screen, tune the TV to channel 4.

   Note: If you want to change the channel that the CH 3-4 port provides to your TV, see Changing the TV1 and TV2 Output Channels on page 37.
8. Place one of the channel stickers (3 or 4) near or on your TV. The stickers are located in the inside front cover of this guide.

Connecting to the Remote TVs (TV1 or TV2)

This section describes how to connect the receiver CH 21–69 Out connection to the cable-ready remote TV located in another room away from the receiver. You can use these instructions to connect TVs in your house to see programming from TV1 or TV2. This installation uses your in-home cable system. If your house does not have built-in cabling, it will be necessary to run cables from the receiver to each remote TV. Due to the difficulty of this installation, you should consider having this professionally installed. Call DISH Network at 1-800-333-DISH (3474).

If you're using TV1 in a room away from the receiver, be sure to order the replacement remote control that uses UHF Pro signals instead of IR. Call your DISH Network retailer or go to www.dishnetwork.com, select Products and Services, and then click on Accessories.

Connecting Other TV(s) (TV1 or TV2)

When connecting to the home distribution (CH 21–69 Out) coaxial port, you must meet the FCC requirements listed in the Appendix. To meet these requirements, a physical and/or electronic attenuator is included with your receiver and may need to be installed with the following guidance:

- If connecting to your in-home cabling system to distribute the signal to a TV(s) in other rooms, in most cases you will not have to install the attenuator on the CH 21–69 port.
- If connecting directly to a nearby TV tuner port, attenuate the signal to the television using *only one* of the following methods:
  - If included, install the physical attenuator in the cable between the CH 21–69 Out port and the TV tuner.
  - Enable the attenuator feature on the receiver. Open the Modulator Setup screen (MENU-6-1-5) and select Connection. When the Connect screen opens, select Direct Connection. Select Done to save your changes.

  Note: If the picture quality on the nearby TV is degraded, remove the attenuator or change the setting on the Connection screen back to Home Distribution.

If you have an over-the-air antenna or cable connected to your in-home cable system, see *Connecting Over-the-Air Antenna* following this section.

Make sure you are familiar with how to change channels on your TV and if necessary how to switch your TV between over-the-air and cable channels. During this procedure, it will be necessary to change the channels on your TV(s) to tune to these channels to see the video from the receiver. See your TV user's guide for instructions.

1. Connect the tuner input of the remote TV(s) in other rooms to an existing wall cable outlet using a coaxial cable.
2. Turn on every remote TV connected to the in-home cabling system.
3. Find three channels next to each other on one of your remote TVs that do not pick up any signals from over-the-air or cable broadcasts (they should show nothing but snow or static). These channels must fall in one of the two ranges below. For example, if you find that cable channels 75, 76, and 77 do not pickup any broadcasts, pick these channels since they fall into the range below for cable channels. Make sure these three channels on other remote TVs also do not pick up broadcasts.
   - **Air Mode** - Select a channel between 21 and 69 if your TV(s) will be set in Air Mode.
   - **Cable Mode** - Select a channel between 73 and 125 if your TV(s) will be set in Cable Mode.

   Note: The remote TV(s) will have to be set to the same channel mode, either over-the-air or cable channel mode for this installation. See your TV user's guide for instructions on how to set your TV to over-the-air or cable channel modes.
4. Pick the channel in the middle of the three you selected in step 3. Write that channel down in the blank provided in step 5. For example, if the three channels you picked in the preceding step were air channels 60, 61, and 62, pick channel 61 and write it in space provided step 5.

Chapter 11 Two Color.fm Page 89 Wednesday, August 2, 2006 1:00 PM

5 If your TV is in over-the-air mode for the channels you picked in step 4, circle “Air” below. If your TV is in cable mode for the channels you picked in step 4, circle “Cable” below. If you are using these instructions for TV1 and TV2, pick different channels (for example, Channel 60 for TV1 and Channel 64 for TV2).

TV1 Channel: _____ TV2 Channel: _____ Air/Cable

6 Set all of your remote TV(s) to the channel mode (Air or Cable) you wrote in step 5.

7 Tune all of your remote TV(s) to the channel(s) you wrote in step 5. This is the channel you will use to receive your satellite programming.

8 Connect CH 21-69 Out on the receiver to your existing wall cable outlet using a coaxial cable.

Note: If you do not have an existing in-home cable system, you will need to run coaxial cable to each TV in other rooms. If this is too difficult, you may want to contact a professional to do this installation.

9 Place the yellow sticker on the CH 21-69 Out cable near where the cable attaches to the receiver. The stickers are located inside the front cover of this guide.

10 Turn on the nearby TV (the TV that gets programming from the TV1 outputs).

11 Make sure the receiver's green TV1 indicator is on.

12 Press MENU. Select System Setup (6), Installation (1), and then Modulator Setup (5).

13 With the Modulator Setup screen displayed on the nearby TV, use Remote Control 1 to do the following:

a Under TV2 Out (or TV1 Out), select either Air (for over-the-air channel numbers) or Cable (for cable channel numbers) based on what you wrote down in step 5.

b Under TV2 Out (or TV1 Out), use the UP and DOWN ARROWS to change the modulator channel to the one you wrote in step 5.

c Select Done.
Note for TV1 Out: If you locked the receiver, a message will display asking you to enter your password.

14 For some TVs, you must run a channel scan so that the TVs will find and display the selected channel from the receiver. Run channel scan on all remote TV(s), if available. See your TV user’s guide for instructions.

15 Confirm that you see a picture from the receiver on your remote TV(s).

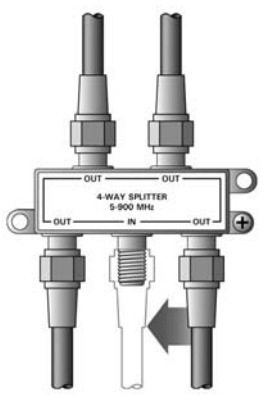
- If your picture looks good, go to step 21.

Chapter 11

Connecting to the Remote TVs (TV1 or TV2)

- If your TV(s) do not have a picture or if it is not as clear as you would like it to be, go to the next step.

16 You may need to change the cable connection on the splitter that sends the TV signal throughout your house. The change that needs to be made is move the cable coming from the receiver CH 21-69 Out from the output of the splitter to the input of the splitter using the instructions that follow. The following figure shows an example of what your splitter may look like. Your splitter may look different. The places where the splitter indicates Out refers to all TVs connected to your cable system. The places where the splitter indicates In refers to where the TV signal is fed into the splitter.



1 Input, 4 Output (4-Way) Splitter

17 Find where the TV signal is distributed throughout your house. It should be near where the cable TV service enters the house.

18 Disconnect the cable TV service cable or antenna cable from the splitter input, if necessary. Make sure the disconnected cable is capped or otherwise protected from the weather. Disconnect the cable coming from the receiver CH 21–69 Out port from the splitter. If you do not know which cable this is, go to the next step. Otherwise, go to step 20.

19 If you have multiple TVs on the cable system, do the following to determine which cable on the splitter is coming from the receiver:

- If you have at least some picture on your TV(s), turn on all remote TVs connected to the cable system. Disconnect and reconnect each cable one by one observing what happens to the TV(s). When all remote TVs lose the signal, you have disconnected the receiver's cable. If only some or one TV loses the signal, then you have disconnected a cable from the TV(s).
- If the above step does not work, disconnect one of the output cables and connect to the splitter input. If you do not see a picture, connect the cable back to its output. Repeat this step on every connection until you get a picture on the remote TV(s).

20 Reconnect the receiver's cable to the input of the splitter. Make sure you have a good picture on your remote TV(s).

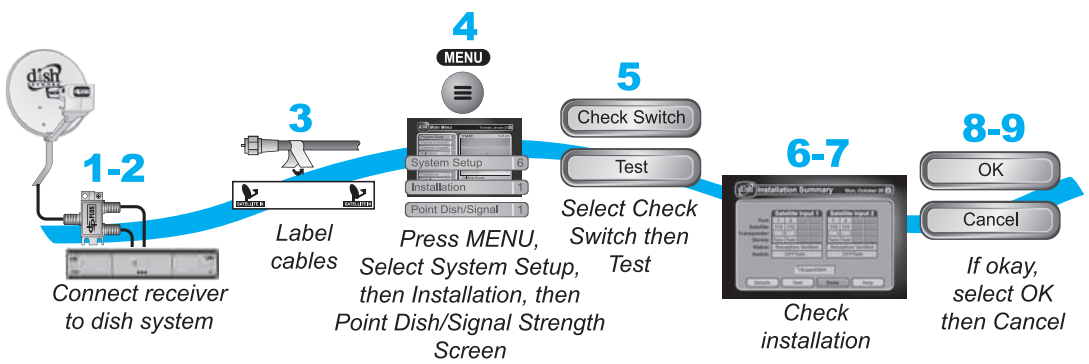
21 If desired to remind you of which TV channel your satellite programming is on, write the channel number you wrote in step 5 on a blank channel sticker and place it on or near your remote TV(s). The stickers are inside the front cover of this guide.

Chapter 11 Two Color.fm Page 91 Wednesday, August 2, 2006 1:00 PM

22 Confirm Remote Control 2 (or Remote Control 1 with a Green UHF Pro key, sold separately) controls the receiver. See for instructions.

23 Program Remote Control 2's (or Remote Control 1 with a Green UHF Pro key, sold separately) RECOVER to the channel you selected in step 5. See page 69 for instructions.

CONNECTING TO YOUR DISH ANTENNA



1 Before you can begin connecting your receiver to your dish antenna, you must first complete the preceding sections on connecting your TVs to the receiver.

2 Connect two RG-6 coaxial cables between the Satellite In 1 and Satellite In 2 ports on the receiver's back panel to two available ports on either the switch, DISH Pro Plus Separator, or LNBF in your existing system.

Note: If you are installing your receiver into a system with DISH Pro or DISH Pro Plus LNBFs (and/or switches), you can have as much as 200 feet of cable between the farthest LNBF and the receiver. However, you must use only RG-6 coaxial cables rated up to at least 2150 MHz. Some cables may say "Swept tested for 2150 MHz." If you have any doubt about this, ask your DISH Network retailer, or look on the container the cable came in. Do not use cable company TV cables or cables from other satellite TV systems not rated up to at least 2150 MHz. These other cables may cause signal loss. Do not use existing cables such as RG-59. Use waterproof F-connectors outdoors.

3 Peel off the blue stickers and affix them to the cables close to where they connect to the Satellite In 1 and Satellite In 2 connections on the back of the receiver. The stickers are in the front cover of this guide.

4 On Remote Control 1, press Menu, select System Setup (6), Installation (1), and then Point Dish (1) to display the Point Dish screen on the nearby TV.

5 Select Check Switch. Select Test.

6 The receiver begins performing the Check Switch tests. When it is finished, the Installation Summary screen displays.

7 Make sure that the information on the Installation Summary screen identifies your system correctly and shows all transponders for all satellites in your system.

Chapter 11 Two Color.fm Page 92 Wednesday, August 2, 2006 1:00 PM

8 Select OK to go to the Point Dish/Signal screen.

9 Select Cancel to exit the Point Dish menu. At this point, the receiver may walk you through a procedure to download software. If this prompt displays, follow the instructions and do not disturb the receiver until the nearby TV is displaying DISH Network video. Otherwise, press VIEW LIVE TV. After a few minutes, you should be watching TV.

Connecting the Phone Line

You must keep the receiver connected to an active telephone line to order Pay-Per-View programs, use all of the Dish**HOME** Interactive features, or other services from DISH Network with your remote control.

Note: You may be able to use a wireless modem jack. However, this may not support all the features of this receiver, such as Caller ID. See www.dishnetwork.com for compatible modem products.

Note: If you have a Digital Subscriber Line (DSL), you may have to install a DSL filter between the receiver's back panel Phone Jack and the telephone wall jack to successfully connect with DISH Network. You can obtain a filter from your DSL provider.

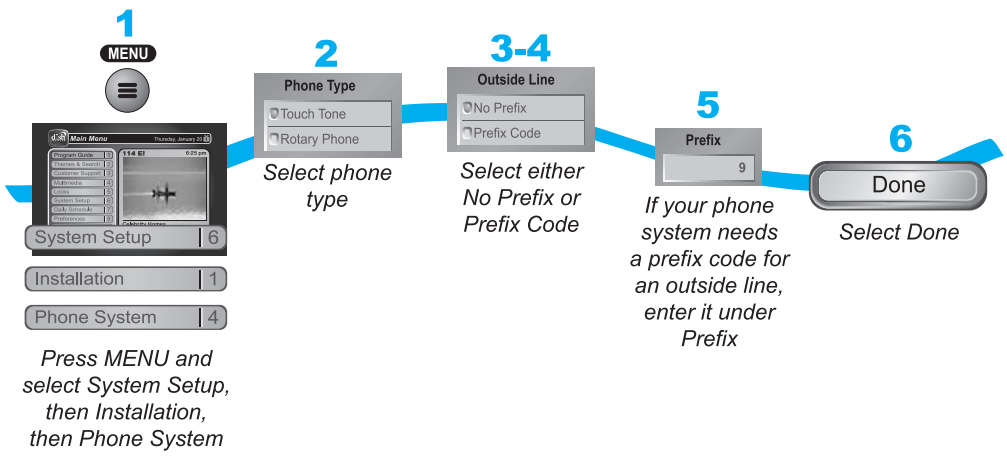
Phone Line Connections

Run a telephone cable with a standard RJ-11 connector from the receiver's back panel Phone Jack to an active telephone connection.

Chapter 11 Two Color.fm Page 93 Wednesday, August 2, 2006 1:00 PM

Phone System Setup

You must also set up the receiver for your telephone system (touch tone or rotary), and set a telephone number prefix, if you need a prefix to make an outside call.



1 Pressing MENU, then select System Setup (6), Installation (1), and then Phone System (4).

2 Select the Touch Tone or the Rotary Phone option in the Phone Type list.

3 Select either the No Prefix or the Prefix Code option in the Outside Line Prefix list.

Note: Usually, you need a telephone number prefix only for business installations. For most residential installations, all you need to do is set the telephone system type. The default setting of No Prefix will allow correct dialing. If this is the case, select the Save option to save the above setting, and stop here. If you do need to set a prefix, then instead of selecting the Save option, go on to step 5.

4 If you selected No Prefix, select Done.

5 If you selected Prefix Code, the receiver highlights the box where you must enter the exact sequence you dial the phone to obtain an outside line.

6 Select Done.

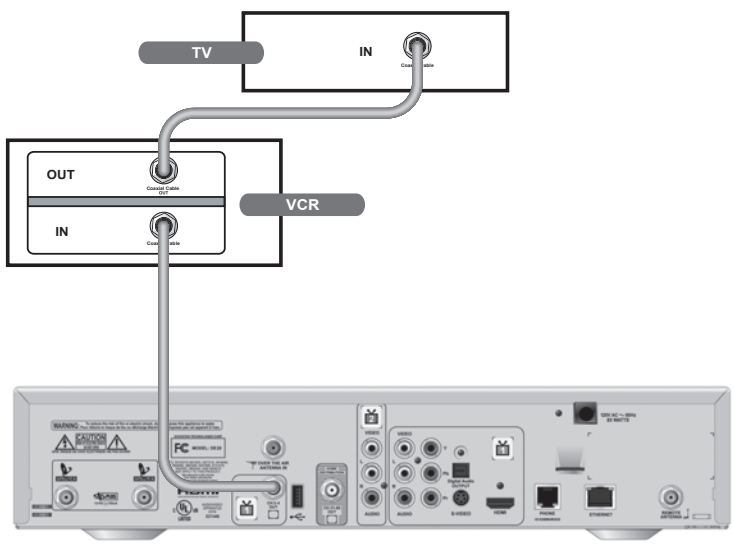
Chapter 11 Two Color.fm Page 94 Wednesday, August 2, 2006 1:00 PM

Chapter 11

Connecting a VCR to the Remote TV

CONNECTING A VCR TO THE REMOTE TV

The diagram below provides example of how to connect VCRs to your satellite TV system.



For this installation, always leave your VCR powered on so that the TV can receive satellite programming. If you turn off your VCR, your TV will not be tuned to the correct channel to receive satellite programming.

Note: Connecting your TV directly to the satellite receiver provides the best audio and video quality.

1. Connect the tuner input of the remote VCR to an existing wall cable outlet using a coaxial cable.
2. Connect a coaxial cable from the output on the VCR to the remote TV's tuner port.
3. Plug in and turn on the remote VCR and TV.
4. Tune the remote VCR to the remote TV channel that you use to watch satellite TV programming (for example, channel 60) as set on page 89.
5. Write the channel number you tuned your VCR to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the VCR. This sticker will remind you which VCR channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.
6. Set the VCR output to channel 3 or 4.
7. Tune the remote TV to the same channel that you set your VCR to in step 6.
8. Write the channel number you tuned your TV to in the previous step on one of the TV2 channel stickers. Place the sticker on or near the TV. This sticker will remind you which channel to use to watch satellite programming. The stickers are located in the inside front cover of this guide.

Chapter 11 Two Color.fm Page 95 Wednesday, August 2, 2006 1:00 PM

CONNECTING OVER-THE-AIR ANTENNA

If you want to receive channels from an over-the-air antenna or cable in addition to your satellite receiver programming, connect the over-the-air antenna/cable into your TV distribution equipment.

- The TV Antenna/Cable In on your receiver's back panel can be used to receive and view programming on the nearby TV from an over-the-air antenna or cable service.
- Connect a VHF/UHF over-the-air antenna to the 8VSB TV Antenna/Cable port. Peel off the black sticker and affix it to the cable close to where it connects to the back of the receiver. The stickers are inside the front cover of this guide.
- Not all over-the-air broadcasts can be recorded with your receiver.
- The remote TV can view over-the-air channels only in Single Mode.
- For remote TVs receiving programming from CH 21-69 Out, the over-the-air antenna needs to be connected to your TV distribution equipment. When adding this connection, the FCC requires that your install appropriate equipment between the over-the-air antenna/cable and the satellite TV receiver to prevent you from accidentally retransmitting DISH Network programming (see FCC Compliance in the Appendix). TV distribution equipment devices include coax panels, amplifiers or super home nodes, and are available through many companies. See www.dishnetwork.com for a list of approved equipment.
- You can add local over-the-air channels and assign them network affiliations. Once you have done this, you can access the channels via the Program Guide or the Browse Banner in much the same way as you would satellite channels.

Note: The type of antenna required depends on the channels used by, and the locations of, the local broadcasters for your area. Visit www.antennaweb.org or contact a professional installer to help you select a suitable antenna.

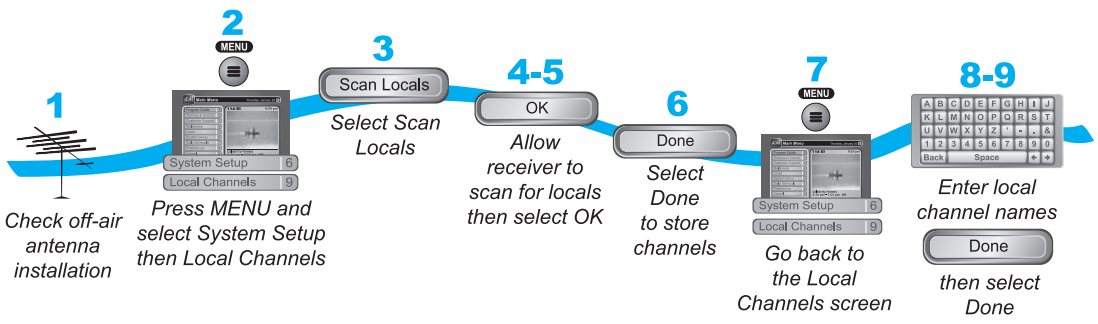
Make sure to follow the antenna installation instructions correctly. Ground an outdoor antenna per the National Electrical Code (NEC) and any local electrical codes.

The audio/video quality on local over-the-air channels depends on the distance and terrain between the broadcast station and your home, and on the placement and quality of the over-the-air TV antenna you use. If you have questions about over-the-air channels, contact the broadcaster, not DISH Network.

Chapter 11 Two Color.fm Page 96 Wednesday, August 2, 2006 1:00 PM

Scanning for Over-the-Air Channels

With your over-the-air antenna adjusted for best reception, use these instructions to scan for over-the-air channels for the nearby TV.



1 Make sure you have your over-the-air antenna connected to the receiver's 8VSB TV Antenna/ Cable connection.

2 Press MENU, select System Setup (6), and then Local Channels (9) to open the Local Channels screen. If this is the first time you have opened this screen, it will have no channels listed.

3 Scan for channels by selecting Scan Locals.

4 The scan will take a few minutes to complete. When it finishes, the results will show how many channels the scan found.

5 Select OK to go back to the Local Channels screen.

Note: If the channel number says None, you have not yet assigned this channel a network affiliation or name. The Arrow at the bottom left means that there are more channels, off the bottom of the screen, which you can get to with the ARROW keys if you wish to edit their names or remove them.

6 If you want to name the over-the-air channels, continue on. If you do not want to name your over-the-air channels, select Done. You will then be taken out of the menus back to watching TV.

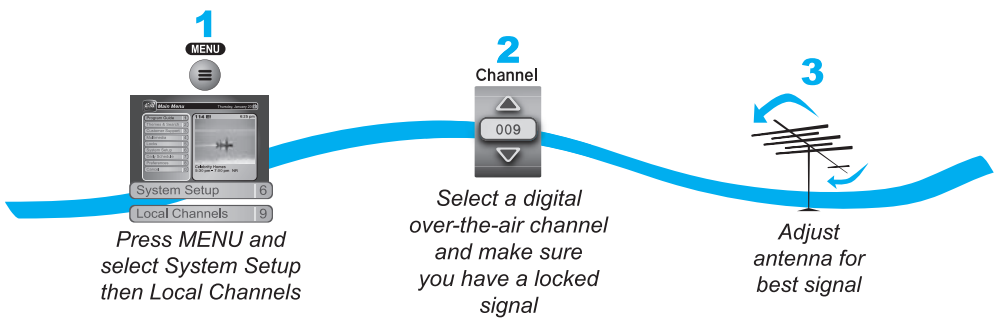
7 Select a channel and then select Edit Name to modify the way the channel name displays on your screen.

8 Use the virtual keyboard on the screen to select the letters of your channel name.

9 When you are finished making changes, select Done.

Chapter 11 Two Color.fm Page 97 Wednesday, August 2, 2006 1:00 PM

Peaking Your Over-the-Air Antenna

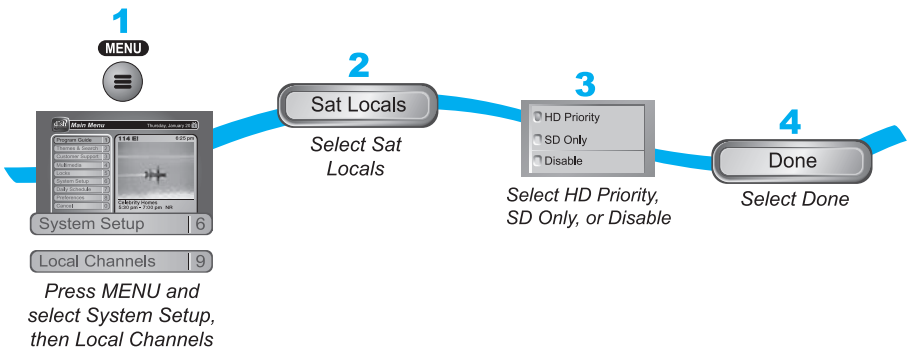


1. Press MENU, select System Setup (6), and then Local Channels (9) to open the Local Channels screen.
2. Highlight the Channel field and use the UP and DOWN ARROWS to select a digital over-the-air channel. Make sure you see a green signal strength bar and a Locked indication on the meter.
3. Adjust the orientation of your antenna to maximize the signal strength. If you cannot get a Locked indication, you may need to upgrade your antenna or relocate it to a better position.

Using Local Satellite Channels

If you subscribe to the local satellite channels and want to see the them in the Program Guide by broadcast number, enable the Sat Locals feature. Otherwise, the local satellite channels will display in the four-digit channel range.

Note: Digital over-the-air channels display in the guide at the broadcast channel regardless of the setting you choose here.



1. Press MENU, select System Setup (6), and then Local Channels (9).
2. Select Sat Locals.
3. Select HD Priority (display HD local channels, if available), SD Only, or Disable (leave the Sat Locals in the four-digit range of the Program Guide).
4. Select Done.

Chapter 11 Two Color.fm Page 98 Wednesday, August 2, 2006 1:00 PM

Transmit Channel Numbers

For information on channel numbers, you can visit the National Association of Broadcasters (NAB) web page at www.nab.org. On this web page, go to www.nab.org/Newsroom/Issues/digitaltv/DTVstations.asp for a listing of digital broadcast stations and their Transmit Channel numbers.

Note: Where Transmit Channel is displayed by the receiver, the NAB web page uses the term RF Channel. These terms mean the same thing.

Another good source of local channel information is available from the Consumer Electronics Association (CEA) web page at: www.antennaweb.org. This website provides recommendations for antenna types and pointing directions.

About Over-the-Air TV Broadcasts

Over-the-air TV signals are broadcast from stations on the ground, while satellite TV signals are broadcast from satellites in space. You receive over-the-air TV signals using an indoor or outdoor antenna instead of the satellite dish. You are likely familiar with analog over-the-air TV signals - these are the signals that have been used to broadcast TV for many years. New digital over-the-air TV signals are broadcast and received in the same way. Digital over-the-air TV broadcasting uses advanced technology like that of the DISH Network to deliver superb picture quality and CD quality sound. However, digital over-the-air signal reception (like analog over-the-air signal reception) depends on several things:

- The distance between the broadcast station and your home (the farther away the station, the weaker the signal);
- The broadcast station's power (the lower the power, the weaker the signal);
- Obstacles between the station and your home, such as mountains, buildings, trees, or other objects (these may block or reflect the signal before it reaches you);
- Multiple broadcast stations (to receive good signals from several stations, you may need to compromise in how you aim the antenna or you may need more than one antenna).

The effects of poor digital reception are different from the effects of poor analog reception:

- Poor analog reception usually causes the TV picture to be “snowy” or to include “ghosts,” that is, multiple images caused by receiving reflected signals along with the direct signal from a station.
- Poor digital reception may cause the TV picture to be “pixelized,” that is, broken up into small squares of various colors, or to be lost completely (the TV screen is all black or all blue).
- Digital broadcasts often provide either a very good picture or no picture at all.
- You may be able to receive a poor analog signal but not be able to receive a digital signal at all.

Chapter 11 Two Color.fm Page 99 Wednesday, August 2, 2006 1:00 PM

To get the best possible digital signal reception, make sure you use the best over-the-air antenna for where you live:

- You can receive a limited number of channels using a rabbit ears type antenna on top of the TV set, or a much larger number via a large UHF/VHF indoor/outdoor antenna.
- The higher the quality of the antenna you use, the greater its range and the better its reception will be.

Digital OTA Broadcasts are Still Developing

- Broadcasters may still be testing digital signals and their strength, and may stop broadcasting without notice, vary power output, or turn it off.
- Some broadcasters do not yet have permanent transmitter tower.
- Broadcasters may choose to multicast, which allows them to provide multiple standard-definition channels in the same bandwidth used to provide a high-definition channel.
- These factors are outside of DISH Network's control.

Additional Installation Considerations

- Follow local and National Electric Code requirements for grounding the antenna.
- RG-6 coaxial cable is preferred for the ANTENNA IN line. If you are diplexing the ANTENNA IN and SATELLITE IN cables, RG-6 coaxial cable must be used.
- You can not use a diplexer to combine the ANTENNA IN and SATELLITE IN cables if using an amplified antenna.
- If you are using a diplexer to combine the TV 2 CH 21-69 OUT of the receiver, and the ANTENNA IN, you must use a Super Home Node to prevent accidentally broadcasting the TV2 OUTPUT from the antenna. See page 49 for more information.

If you have questions about over-the-air channels, contact the broadcasters, not DISH Network. DISH Network does not broadcast over-the-air signals and so cannot do anything to change over-the-air signal quality. However, the receiver's digital channel setup menus provide a signal strength bar that can help you in aiming the over-the-air TV antenna for the strongest possible signal.

Here’s something interesting! We all know that there’s no Channel 1, but did you know that no TV stations broadcast on Channel 37? That channel is reserved for radio astronomy. Perhaps someday we will receive TV shows from Alpha Centauri.

Chapter 11 Two Color.fm Page 100 Wednesday, August 2, 2006 1:00 PM

USING TROUBLESHOOTING TOOLS

Your receiver has troubleshooting tools that a Customer Service Representative may ask you to use if you should ever run into problems while using your equipment. Even though these tools are quite helpful, it is recommended that you only use them when on the phone with a DISH Network representative.

Resetting Your Receiver

Reset your receiver as directed by the Customer Service Representative as follows:

1. Press and hold the front panel POWER until only the green TV1 indicator is lit.
2. Let go of the front panel POWER.

It will take a few minutes for your receiver to reset and come back on. When you reset your receiver, your receiver may have to download an updated Program Guide. If this is the case, it may take longer for the receiver to come back on.

Diagnostics

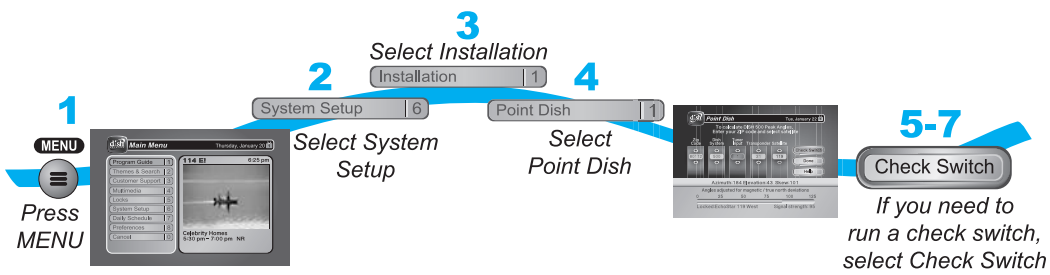
The Customer Service Representative may ask you to open the Diagnostics screen. Remember to have an active phone line connected to your receiver.

1. Press MENU, select System Setup (6), and then select Diagnostics. The Diagnostics screen shows you various tests the Customer Service Representative may ask you to perform on your receiver:
   - Connection - Tests for a valid receiver phone connection.
   - Dial Out - If “No Dial Out Pending” is displayed, the receiver does not need to have its smart card records updated.
   - Counters - Shows you a list of diagnostic counters. Use PAGE UP and PAGE DOWN to scroll through the list of counters displayed.
2. Select Done.

Chapter 11 Two Color.fm Page 101 Wednesday, August 2, 2006 1:00 PM

Point Dish and Check Switch

The Point Dish and Check Switch screens are helpful to the Customer Service Representatives. You may be asked to display these screens when you call DISH Network. Even though there are items that can be changed, only change them when specifically directed by a Customer Service Representative.



1. Press MENU.
2. Select System Setup.
3. Select Installation.
4. Select Point Dish. This screen shows you information to help maximize your satellite signal. The bar at the bottom of the screen tells you the signal strength. Green is a good signal, while red indicates the signal is not acceptable or is from the wrong satellite.
5. Select Check Switch to display the Installation Summary screen. The Installation Summary screen tells you if you are receiving signals from the satellites and which multi-dish switches you have installed, if any.
6. Select Test only if directed by the Customer Service Representative.
7. Select Done.

Chapter 11 Two Color.fm Page 102 Wednesday, August 2, 2006 1:00 PM

Chapter 11

Using Troubleshooting Tools

Notes

ColorIX.fm Page 129 Tuesday, August 1, 2006 3:30 PM

Index

A

Account Information 4
Address, Remote Control
  Changing 58
  Checking 59
Adult Content, Hiding 46
Antenna
  Dish 91
  Over-the-Air 95
  Remote Control, Adjusting 60
  Remote Control, Attach 15
  Remote Control, Attenuator 61
Automatic Timer 54

B

Back Panel 19
Batteries, Remote Control 15
Browse Banner 28, 109
Buying a Pay-Per-View 34

C

Caller ID 75
  History 76
  Screens 75
  Setting Up 75
  Troubleshooting 113
Canceling a Procedure 21
Changing Channels 26, 107
Changing Languages 76, 113
Channel Locks 45
Check Switch 101
Checking the Device Codes 65
Checking the Remote Control Address 59
Closed Captioning 13, 77
Closing Menus 20
Combination Devices 62
Connecting a VCR to the Remote TV 94
Connecting Over-the-Air/Cable TV 95
Connecting to the Nearby TV (TV1) 84
  HDTV Digital Audio/Video Connections 84
  YPbPr Connections 85
Connecting to the Phone Line 92
Connecting to the Remote TVs (TV2) 87
Connecting to Your Dish Antenna 91
Connections, Back Panel 19
Controlling Other Components 61
Controls and Indicators, Front Panel 19
Conventions, Guide 3
Customer Support 50

D

Deleting a Timer 56
Descriptive Video 76
Device Codes 63, 65, 116
  DVD Player 118
  DVD/VCR Combo 118
  Tuner/Amplifier 117
  TV 116
  TV/DVD Combo 118
  TV/VCR Combo 118
  VCR 117
Device Codes Scan 64
Diagnostics 100
Dish Antenna 91
DISH Network Account 4
DishHOME 6
Dolby Surround Sound 78
Dual Mode 11
DVD Player Codes 118
DVD/VCR Combo Codes 118

F

Factory Defaults 80
Favorites Lists 13, 38, 111
Finding a Program to Watch 5
Front Panel 19, 47

H

HDTV Digital Audio/Video Connections 84
Hiding Adult Content 46
Highlighting Options in a Menu 20

I

Improving Receiver Control 58
  Adjusting the Remote Antenna 60
  Changing the Address for Remote Control 2 (Blue) 58

ColorIX.fm Page 130 Tuesday, August 1, 2006 3:30 PM

Index

Checking the Remote Control Address 59
Installing a UHF Attenuator 61
Inactivity Standby 81
Installing a UHF Attenuator 61

K

Keyboard, Virtual 22

L

Languages, Changing 76
Limited Mode 62
List of Choices in Menus 21
Locking Pay-Per-View Channels 45
Locking the Front Panel 47
Locks (Parental Controls)
Channel Locks 45
Creating or Changing a Password 43
Hiding Adult Content 46
Locking and Unlocking the Front Panel 47
Locking and Unlocking Your Receiver 43
Locking and Unlocking Pay-Per-View Channels 45
Locking and Unlocking the Front Panel 47
Ratings Locks 44
Locks (Parental Controls) 42
Low Battery Warning 15

M

Manual Timer 55
Menus 20
Canceling a Procedure 21
Highlighting Options 20
List of Choices 21
Open and Close 20
Selecting Options 20
Troubleshooting 115
Using 20
Message Numbers 105
Mode Light 11, 12
Modes
Dual 11
Single 11, 12
Switching 13

N

Naming Favorites Lists 39
Nearby TV 3, 10, 11, 14
Connecting 84
HDTV Digital Audio/Video Connections 84
No Picture 85
Setting Up to Display in HD 86
YPbPr Connections 85
No Picture on the Nearby TV 85

O

Opening Menus 20
Ordering Your Program Packages 4
Over-the-Air Antenna 95
Peaking 97
Transmit Channel Numbers 98
Over-the-Air Channels 38, 45, 96
Over-the-Air TV Broadcasts 98

P

Parental Controls 13, 42, 114
Password, Creating or Changing 43
Pay-Per-View 6
Buying 34
Locks 45
Reviewing Purchases 34
Troubleshooting 115
Peaking Your Over-the-Air Antenna 97
Phone Line 92, 114
Phone Line Connections 92
Phone System Setup 93
Picture-In-Picture 30
Point Dish 101
Program Guide 26
Channel Order 79
Display 79
Troubleshooting 109
Programming the Recover Button for Remote Control 2 (Blue) 69
Programming to Control a Second Satellite Receiver 67
Purchasing a Pay-Per-View 34

R

Rain and Snow Fade 6
Ratings Locks 44
Receiver Back Panel 19
Receiver Front Panel 19, 47
Receiver Updates 81
Recordings 52
Recover Button 68
Programming 69
Using 69
Remote Antenna 60
Remote Battery Low 15
Remote Control 14
Antenna 15, 60
Batteries 15

ColorIX.fm Page 131 Tuesday, August 1, 2006 3:30 PM

Buttons, Receiver Control 16
Buttons, TV Control 17
Buttons, VCR Control 18
Changing the Address 58
Checking the Address 59
Checking the Device Codes 65
Combination Devices 62
Confirming Operation 59
Controlling Other Components 61
Limited Mode 62
Low Battery Warning 15
Modes 62
Programming the Recover Button for Remote Control 2 (Blue) 69
Programming to Control a Second Satellite Receiver 67
Removing the Recover Button Channel Programming 70
Setting Up Using Device Codes Scan 64
Switching Between TV and Device Volume Adjustment 67
Troubleshooting 108
Types 14
UHF Attenuator 61
UHF Pro 14
Using the Recover Button 69
Remote Control 1 (Green) 3, 10
Remote Control 2 (Blue) 3, 10, 58
Recover Button 69
Removing the Recover Button Channel Programming 70
Using the Recover Button 69
Remote Controls 14
Remote TV 3, 10, 11, 12, 14
Remote TVs (TV1/TV2) 87
Removing the Recover Button Channel Programming 70
Resetting to Factory Defaults 80
Resetting Your Receiver 100
Reviewing Pay-Per-View Purchases 34

S

Satellite TV Reception 6
Scanning for Over-the-Air Antennas 96
Scheduling Receiver Updates 81
Search 29
Second Satellite Receiver 67
Selecting Menu Options 20
Shared View 74
Single and Dual Modes 13
Single Mode 11, 12
Picture-In-Picture 30
Shared View 74
Solar Interference 7
Special Considerations When Using Timers 54
Standby, Inactivity 81
Switching Between TV and Device Volume Adjustment 67

T

Themes 30
Timers and Recordings 52, 53
Deleting a Timer 56
Setting Up an Automatic Timer 54
Special Considerations When Using Timers 54
Timer Frequency 52
Timer Options 52
Timer Types 52
Timers List 52
Timers List 52, 54
Transmit Channel Numbers 98
Troubleshooting 104
Caller ID 113
Changing Channels 107
Changing Languages 113
Favorites Lists 111
Hearing a Program 113
Menus 115
Message Numbers 105
Parental Controls 114
Pay-Per-View 115
Phone Line 114
Program Guide and Browse Banner 109
Remote Control 108
Timers 112
Watching a Program 110
Troubleshooting Tools 100
Diagnostics 100
Point Dish and Check Switch 101
Resetting Your Receiver 100
Tuner/Amplifier Codes 117
TV Codes 116
TV/DVD Combo Codes 118
TV/VCR Combo Codes 118

U

UHF Attenuator 61
Unlocking Pay-Per-View Channels 45
Unlocking the Front Panel 47
Unlocking Your Receiver 43
Updates 81

ColorIX.fm Page 132 Tuesday, August 1, 2006 3:30 PM

Index

V

VCR Codes 117
VCR Connection 94
Virtual Keyboard 22

Y

YPbPr Connections 85

ColorIX.fm Page 133 Tuesday, August 1, 2006 3:30 PM

Notes

ColorIX.fm Page 134 Tuesday, August 1, 2006 3:30 PM

Notes

ColorIX.fm Page 135 Tuesday, August 1, 2006 3:30 PM

Notes

ColorIX.fm Page 136 Tuesday, August 1, 2006 3:30 PM

Notes

ColorIX.fm Page 137 Tuesday, August 1, 2006 3:30 PM

Notes

ColorIX.fm Page 138 Tuesday, August 1, 2006 3:30 PM

Notes

Appendix Two Color.fm Page 119 Tuesday, July 25, 2006 3:06 PM

Appendix

- LIMITED WARRANTY
- RESIDENTIAL CUSTOMER AGREEMENT
- STAYING LEGAL
- FCC COMPLIANCE

Appendix Two Color.fm Page 120 Tuesday, July 25, 2006 3:06 PM

Appendix

LIMITED WARRANTY

This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of Sale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

What the Warranty Covers

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. EchoStar Technologies Corporation and its affiliated companies ("EchoStar") warrant this system against defects in materials or workmanship as follows:

- **Labor**: For a period of one (1) year from the original date of purchase, if EchoStar determines that the equipment is defective subject to the limitations of this warranty, it will be replaced at no charge for labor. EchoStar warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.
- **Parts**: For a period of one (1) year from the original date of purchase, EchoStar will supply, at no charge, new or re-manufactured parts in exchange for parts determined to be defective subject to the limitations of this warranty. EchoStar warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period. **Note**: "Parts" means items included in this package, which may include the satellite dish assembly, receiver, LNBF, remote control, or dish mounting hardware. It does not include other parts purchased separately.

What the Warranty Does Not Cover

- This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.
- This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction.
- This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the receiver manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.
- This warranty does not cover equipment sold AS IS or WITH ALL FAULTS, shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United States of America.

Legal Limitations

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. ECHOSTAR SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS SYSTEM, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS SYSTEM. UNDER NO CIRCUMSTANCES SHALL ECHOSTAR'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS SYSTEM. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS SYSTEM IS LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY. ECHOSTAR RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF ECHOSTAR DETERMINES ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS SYSTEM NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE RECEIVER HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

If You Need Assistance

1 Call the Customer Service Center at 1-800-333-DISH (3474). Have the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number ready. Display the Important System Information menu to find these numbers.

2 A Customer Service Representative will assist you.

3 If the Representative determines you should return any equipment, you will be directed to call a Return Authorization representative. Before shipping any equipment, you must talk to a Return Authorization representative and must obtain a Return Authorization (RA) number.

4 You will be given the appropriate address for which to return your equipment. Whether under warranty or not, you will be responsible for the cost of shipping back the defective equipment. For faster service, see the Advance Exchange Program below.

5 Returned equipment must be packaged properly, using either the original shipping materials or the packaging in which the replacement equipment is shipped. Include a copy of the Bill of Sale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty. Follow the instructions given to you by the Customer Service Representative.

6 Write the RA number in large, clearly visible characters on the outside of the shipping box that you use to return the equipment. To avoid confusion and misunderstandings, shipments without an RA number clearly visible on the outside of the box will be returned to you at your expense.

Appendix Two Color.fm Page 121 Tuesday, July 25, 2006 3:06 PM

Advance Exchange Program

The Advance Exchange Program allows you to have replacement equipment shipped immediately to you (depending upon where you live, it could take three to five business days). Along with replacement equipment, you will receive a prepaid shipping label and instructions on how to return the defective equipment. The shipping charge, for receiving replacement equipment and returning the defective equipment, is a one-time fee based on EchoStar's competitive bulk shipping rates (additional charges may apply outside of the continental US). This fee will be charged to your billing account or your valid credit card. If you do not ship the defective equipment to EchoStar within ten days after receiving the replacement, your billing account or credit card will be charged the market price of the replacement. If you return the defective equipment after ten days, you will receive a full refund less an administrative fee.

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, billing account or credit card will be charged the market price of the replacement.

Post Receipt Exchange Program

You may choose to ship the equipment to us at your cost. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

The equipment you return will be checked to verify whether it is covered under this warranty. If the defective equipment is covered under this warranty, it will be replaced and shipped back to you at no additional cost (additional charges may apply outside of the continental US).

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

Accessory Warranty

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.

Residential Customer Agreement

Thank you for choosing DISH Network as your television service provider. DISH Network is happy to answer any questions you may have and to provide you with technical and other customer support. You may contact us 24 hours a day, any day of the year, by any of the following means:

Phone: 1 (800) 333-DISH (3474)
Email: feedback@customermail.dishnetwork.com
Mail: DISH NETWORK CUSTOMER SERVICE CENTER
P.O. BOX 9033
LITTLETON, CO 80160
Website:www.dishnetwork.com

To view this Residential Customer Agreement (the “Agreement”) in Spanish, please visit our website at www.dishnetwork.com or call us at 1 (800) 333-DISH and we will send you a copy. Para ver este Acuerdo en español por favor visite www.dishnetwork.com o llame al 1(800)333-DISH y le enviaremos una copia. “DISH Network” is a trademark of EchoStar Satellite L.L.C. For purposes of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, “DISH Network”, “we” or “us” shall mean EchoStar Satellite L.L.C. or, where applicable under the particular circumstances, third party billing agents, and “you” or “your” refer to you, the DISH Network subscriber.

THIS RESIDENTIAL CUSTOMER AGREEMENT DESCRIBES THE TERMS AND CONDITIONS UNDER WHICH DISH NETWORK WILL PROVIDE ITS SERVICES TO YOU. THIS AGREEMENT IS EFFECTIVE UNTIL CHANGED OR REPLACED. IF YOU ARE AN EXISTING DISH NETWORK CUSTOMER AND DO NOT ACCEPT THESE TERMS AND CONDITIONS, OR ANY SUBSEQUENT CHANGES TO, OR REPLACEMENT OF, THESE TERMS AND CONDITIONS, PLEASE NOTIFY US IMMEDIATELY AND WE WILL AT OUR OPTION CANCEL YOUR SERVICES OR ALLOW YOU TO CONTINUE TO RECEIVE YOUR SERVICES UNDER THE TERMS AND CONDITIONS OF YOUR IMMEDIATELY PRIOR RESIDENTIAL CUSTOMER AGREEMENT. IF YOU ARE A NEW DISH NETWORK CUSTOMER, YOUR ACTIVATION OF A DISH NETWORK ACCOUNT AND RECEIPT OF DISH NETWORK SERVICES SHALL CONSTITUTE YOUR ACCEPTANCE OF THIS AGREEMENT AND ITS TERMS AND CONDITIONS WILL BE LEGALLY BINDING UPON YOU. IF YOU ARE AN EXISTING DISH NETWORK CUSTOMER, WE WILL NOTIFY YOU OF ANY CHANGES TO, OR REPLACEMENT OF, THE TERMS AND CONDITIONS OF THIS AGREEMENT AND YOUR CONTINUED RECEIPT OF DISH NETWORK SERVICES FOLLOWING RECEIPT OF SUCH NOTICE SHALL CONSTITUTE YOUR ACCEPTANCE OF SUCH CHANGED OR REPLACED TERMS AND CONDITIONS AND THEY WILL BE LEGALLY BINDING ON YOU.

Appendix Two Color.fm Page 122 Tuesday, July 25, 2006 3:06 PM

Appendix

Residential Customer Agreement

1. THE DISH NETWORK SERVICE

A. Services Defined. For purposes of this Agreement, the term “Services” shall mean all video, audio, interactive and other programming services and all other services that are currently available from DISH Network (whether subscription based, pay-per-view based or otherwise) and that we may provide to consumers in the future.

B. Changing Your Programming Selection. Unless otherwise specified in this Agreement or the customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, you may change your programming selection at any time by notifying us. A fee may apply to such changes (“Transaction Fee”). In addition (and without limitation), you may be charged a monthly fee (“Service Access Fee”) if you fail to subscribe to one of the following DISH Network basic programming packages: America's Top 60, America's Top 120, America's Top 180, Great Wall TV Package, DISH Latino, DISH Latino Dos DISH Latino Max, America's “Everything” Pak, Latino “Everything” Pak, or any of their successor packages. Some Services are only available if you purchase and maintain a minimum level of programming.

C. Programming Availability. Certain Services transmitted by us, including but not limited to some subscription Services, sporting events and broadcast network Services, may be blacked out in your area of reception. If you circumvent or attempt to circumvent any of these blackouts, you may be subject to legal action. You must be at least 18 years of age, or the applicable age of majority where you reside, in order to receive adult-oriented programming services.

D. Ordering Pay-Per-View. You may order DISH Network special events and pay-per-view Services by using your on-screen Program Guide and remote control unit to select the movies and other events we offer. To receive the full functionality of DISH Network pay-per-view Services, your DISH Network receiver must be connected to a land-based telephone line. You may also order DISH Network special events and pay-per-view Services by calling the following toll free number: 1-877-DISH-PPV (3474-778) and using our automated system or speaking with a live operator at one of our Customer Service Centers. A fee will apply for using our automated system (“Pay-Per-View Automated Fee”) or calling one of our Customer Service Centers (“Pay-Per-View Live Operator Fee”).

E. Private Home Viewing Only. DISH Network provides Services to you solely for your private home viewing, use and enjoyment. You agree that no Services provided to you will be viewed in areas open to the public or in commercial establishments. Services may not be rebroadcast, nor performed, nor may admission be charged for listening to or viewing any Services. If we later determine that you utilized your Equipment (or sold, leased or otherwise gave possession of such equipment to a third party who you knew or reasonably should have known intended to use it) to permit the viewing of Services in a commercial establishment or any other area open to the public, we may disconnect your Services and in addition to all other applicable fees, you agree to pay us the difference between the price actually paid for Services and the full commercial rate for such Services, regardless of whether we have or had the rights to distribute such Services in a commercial establishment.

F. Additional Tuners and Receivers. We may allow you to place additional receivers on your account in our sole discretion. Each additional receiver will be authorized to receive the same Services as your initial receiver. This option is only available if your initial DISH Network receiver and all additional receiver(s) are located at the same residence and are continuously connected to your same land-based telephone line. Unless otherwise specified in the customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, DISH Network will charge you a monthly additional outlet programming access fee (“Additional Outlet Programming Access Fee”) for each tuner activated on your account beyond the first. If you desire to receive Services at two different residential locations, you must open a separate account for each location. You agree that you will not directly or indirectly use a single account for the purpose of authorizing Services for multiple DISH Network receivers that are not all located in the same residence and connected to your same land-based telephone line. If we later determine that you did, we may disconnect your Services and, in addition to all other applicable fees, you agree to pay us the difference between the amounts actually received by us and the full retail price for the Services authorized for each DISH Network receiver on your account.

G. Changes in Services Offered. We reserve the right to add, delete, rearrange and/or change any and all programming, programming packages and other Services that we offer, and our prices and fees related to such programming, programming packages and Services at any time, including without limitation during any term agreement period to which you have agreed under the terms and conditions of any other agreement with DISH Network. If a change affects you, we will provide you notice of such change and its effective date. In the event that we delete, rearrange or change any programming, programming packages or other Services, you understand and agree that we have no obligation to replace or supplement any programming, programming packages or other Services previously offered that have been deleted, rearranged or otherwise changed. You further understand and agree that you will not be entitled to any refund because of a deletion, rearrangement or change in the contents of any programming, programming packages, or other Services previously offered.

H. Multi-Month Subscriptions. For multi-month subscriptions, you may downgrade your Services only at your time of renewal. You may not downgrade your Services during the term of a multi-month subscription.

2. BILLING POLICIES AND PAYMENTS FOR SERVICES

A. You agree to pay all amounts billed for Services and to pay all taxes, fees and other charges, if any, which are now or may in the future be assessed in connection with any Services you receive from us. Unless you prepay for a multi-month subscription to Services, we will bill you each month, in advance, for most Services and in arrears for other Services such as pay-per-view ordered by you or anyone who uses your Equipment, whether with or without your permission, until you cancel your Services. Bills you receive will show the total amount due, the payment due date, payments, credits, purchases and certain other charges to your account.

Appendix Two Color.fm Page 123 Tuesday, July 25, 2006 3:06 PM

B. You agree to pay us in full monthly by the payment due date indicated on your bill for your Services and for any other charges due and owing to us, including without limitation any fees named in this Section 2. If you do not pay your bill in full on or before its due date, you agree to pay an administrative fee for late payment ("Late Payment Fee") as described below. Other fees and charges may also be assessed, including without limitation a returned payment fee ("Returned Payment Fee") in the event such non-payment arises from non-sufficient funds. If you request a duplicate billing statement, you will be assessed an additional fee (also referred to as a "Transaction Fee"). You may submit your payment by mail, on our website, through our autopay program, by calling a DISH Network customer service representative or by any other means we may designate. If payment is made by calling a DISH Network customer service representative, a fee will be assessed ("Live Operator Payment Fee") as described below. If partial payments are made, they will be applied first to the oldest outstanding bill. We do not assume the risk of undelivered mail. If you send checks or money orders marked with a designation such as "payment in full," we can accept them without waiving any of our rights, including without limitation our rights to collect any other amounts owed by you, notwithstanding your characterization of such payment. DISH Network does not extend credit to our customers, and the Late Payment Fee is not interest, a credit service charge or a finance charge. You understand and agree that in the case of late payment or nonpayment for any Services ordered by you or for any of the charges stated below, we may report such late payment or nonpayment to credit reporting agencies. If you do not pay your bill in full by its due date, or if you at any time otherwise fail, neglect or refuse to make timely payment for your Services, we have the right to disconnect your Services at any time thereafter, in our sole discretion, and in such event we shall be wholly relieved from any and all of our duties and obligations under this Agreement. If your Services are disconnected for non-payment or for any other reason, DISH Network may require you to pay, and you agree to pay, all past due charges, a fee for reconnection ("Restart Fee"), a deposit equal to a minimum of two month's service charges and all outstanding balances accrued through the date of such disconnection, before we reconnect your Services. Unless required by applicable law, deposits will not be held segregated from other funds and shall not earn or accrue interest. Promotional pricing is valid only at time of installation. Additional charges may apply for you to upgrade your Services or Equipment after installation or for non-standard installations.

C. If you paid for an annual or other multi-month subscription to any Services and your account is past due for any amount owed to us, at our option we may suspend any or all Services until we receive payment in full of all past due amounts, and/or convert your annual or other multi-month subscription to a monthly subscription. If we convert your multi-month subscription to a monthly subscription, we will first apply the amount you paid for your multi-month subscription to any past due amounts and then any remaining amounts to any obligations you incur in the future.

D. If we use a collection agency or attorney to collect any money you owe us or to assert any other right which we may have against you, you agree to pay the reasonable costs of collection or other action. These costs might include, but are not limited to, the costs of a collection agency, reasonable attorney's fees and court costs. If there are billing errors or other requests for credit, you may contact our Customer Service Center by telephone or in writing. You must contact us within twenty (20) days after the date you receive the billing statement for which you are seeking corrections. Failure to timely notify us of a dispute shall constitute your acceptance of the corresponding bill. Undisputed portions of a billing statement must be paid before the next billing statement is issued or you agree to pay an administrative fee for late payment. All payments for Services must be made directly by you to us. For example, DISH Network shall have no obligation to provide Services for which payment is made by you to a third party or payment is made by a third party on your behalf.

E. In addition to (and without limitation of) any amounts due for your Services and any other amounts due pursuant to any customer agreement(s) pursuant to which you are receiving Services and/or Equipment, you agree to pay the fees referenced below ("Fees") if and when applicable. DISH Network reserves the right to change these Fees, increase these Fees or add additional Fees at any time and from time to time, in our sole discretion upon notice to you.

Additional Outlet Programming Access Fee (monthly, per each tuner after first):	$4.99
DISH Network DVR Service Fee (monthly, per Digital Video Recording receiver):	$4.98
Equipment Rental Fee (monthly, per leased receiver)	$5.00
Late Payment Fee:	$5.00
Live Operator Payment Fee:	$5.00
Offset Fee:	$2.00
Overnight Delivery Fee:	$18.00
Pay-Per-View Automated Fee:	$1.00
Pay-Per-View Live Operator Fee:	$5.00
Restart Fee:	$25.00
Returned Payment Fee:	$10.00
Service Access Fee (monthly):	$5.00
Smart Card Replacement Fee:	$50.00
Transaction Fee:	$5.00

In the event billing is provided through a third-party billing agent, the above fees may differ.

F. Different or other payment and billing terms and conditions may apply when billing is provided through a third-party billing agent, including without limitation, a local telephone company. See Section 9.F below.

3. CANCELLATION OF SERVICE

A. Your Services will continue until cancelled or disconnected as provided herein. Unless previously disconnected, your subscription will be automatically renewed unless and until you contact us to cancel it as provided in the next paragraph.

B. You have the right to cancel your Services for any reason and at any time by notifying us via telephone, via e-mail or in writing, at the phone number, e-mail address or mailing address set forth in the first paragraph of this Agreement. Please be aware that certain promotions have an optional or mandatory term agreement period and if you cancel your Services prior to the expiration of that optional or mandatory term agreement period, certain early termination or cancellation fees may apply.

Appendix Two Color.fm Page 124 Tuesday, July 25, 2006 3:06 PM

C. In addition to all other rights that DISH Network may have to disconnect your Services, DISH Network has the right to disconnect your Services at any time without providing notice to you if: (i) you fail to pay any bill in full when it is due; (ii) we receive confirmation that you have received Services, or any part of the Services, without paying for them; (iii) you otherwise violate the terms and conditions of this Agreement or any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment; (iv) you transfer, encumber or relocate any leased Equipment (unless you relocate such equipment as part of a residential move into an area within which you can permissibly continue to receive such Services); (v) you assign or attempt to assign any of your rights, duties or obligations under the terms and conditions of this Agreement or any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment; (vi) you are receiving Services through a third-party billing agent and become ineligible to receive applicable services provided by such third-party billing agent; or (vii) any act of bankruptcy on your part or the commencement of bankruptcy proceedings against you.

D. If your Services are canceled or disconnected for any reason, you are still responsible for the payment of all outstanding balances accrued, including without limitation any applicable Fees.

E. You understand that, except in certain limited circumstances, charges for Services, once charged to your account, are nonrefundable and no refunds or credits will be provided in connection with the cancellation of subscriptions to Services. If you received a discounted price in exchange for your agreement to pay for your Services on a multi-month basis, and you cancel your Services prior to the expiration of your multi-month subscription, you understand and agree that you are not entitled to any refund or credit for the unused portions of your multi-month subscription.

4. EQUIPMENT

A. In order to receive Services it will be necessary for you to purchase or lease certain reception equipment consisting primarily of a DISH Network compatible satellite receiver(s), satellite antenna(s), low noise block converter(s) with integrated feed(s) and remote control(s) (collectively, “Equipment”). Receiver(s) provided to you may also be equipped with a conditional access card (“Smart Card”) inserted into a slot in such receiver. Not all receivers with a Smart Card slot require Smart Cards for proper authorization. Smart Cards remain the property of DISH Network at all times and any tampering or other unauthorized modification to any Smart Card is strictly prohibited and may result in, and subject you to, legal action. You agree to return Smart Cards to us upon our request.

B. Smart Cards are non-transferable. Your Smart Card will only work in the DISH Network receiver to which it was assigned by DISH Network. If you report to our Customer Service Center that your Smart Card was lost, damaged, defective or stolen, then we will replace it, as long as there is no evidence of unauthorized tampering or modification. A replacement fee will apply (“Smart Card Replacement Fee”). In addition, in order to minimize downtime for your Equipment, DISH Network will, upon your request, deliver a replacement Smart Card to you via overnight delivery in which event our overnight delivery fee (“Overnight Delivery Fee”) will apply.

C. DISH Network reserves the rights to alter software, features and/or functionality in your DISH Network receivers, provide data and content to Personal Video Recorder/Digital Video Recorder (“PVR/DVR”) products, store data and content on the hard drives of PVR/DVR products, and send electronic counter-measures to your DISH Network receivers, through periodic downloads. DISH Network will use commercially reasonable efforts to schedule these downloads to minimize interference with or interruption to your Services, but shall have no liability to you for any interruptions in Services arising out of or related to such downloads.

D. DISH Network's PVR/DVR Products allow you to record programming in digital format. Total recording time varies depending on your receiver and the nature of the programs being recorded. DISH Network does not guarantee access to or recording of any particular programming. Most programming is the copyrighted material of the third party that supplies it, is protected by copyright and other applicable laws, and may not be reproduced, published, broadcast, rewritten, or redistributed without the written permission of the third party that supplied it except as permitted by the “fair use” provisions of the U.S. copyright laws. DISH Network may, in its sole discretion, add, change or remove features of its PVR/DVR Products and, upon notice to you, introduce or change fees for the use of PVR/DVR Product features. DISH Network will notify you of any change that is within its reasonable control. Unless otherwise specified in the terms and conditions of the customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, we will charge you a monthly DISH Network DVR service fee (“DISH Network DVR Service Fee”) for each PVR/DVR receiver activated on your account.

E. DISH Network receivers contain components and software that are proprietary to DISH Network. You agree that you will not try to reverse-engineer, decompile or disassemble any software or hardware contained within any receiver or Smart Card. Such actions are strictly prohibited and may result in the termination of this Agreement, disconnection of your Services and/or legal action.

F. To optimize the operation of your Equipment, you must continuously connect each DISH Network receiver on your account to your same land-based telephone line. Failure to connect each receiver to your same land-based telephone line may result in interruption or disconnection of Services.

G. If your Equipment is stolen or otherwise removed from your premises without your authorization, you must notify our Customer Service Center by telephone or in writing immediately, but in any event not more than three (3) business days after such removal to avoid liability for payment for unauthorized use of your Equipment. You will not be liable for unauthorized use that occurs after we have received your notification.

Appendix Two Color.fm Page 125 Tuesday, July 25, 2006 3:06 PM

H. You are licensed to use the software provided in your DISH Network receiver(s), as updated by DISH Network from time to time, solely in executable code form, solely in conjunction with lawful operation of the DISH Network receiver(s) that you purchased or leased, and solely for the purposes permitted under this Agreement. You may not copy, modify or transfer any software provided in your DISH Network receiver(s), or any copy thereof, in whole or in part. You may not reverse engineer, disassemble, decompile or translate such software, or otherwise attempt to derive its source code, except to the extent allowed under any applicable laws. Any attempt to transfer any of the rights, duties or obligations of this license agreement is null and void. You may not rent, lease, load, resell for profit or distribute any software provided in your DISH Network receiver(s), or any part thereof. Such software is licensed, not sold, to you for use only under the terms and conditions of this license agreement, and DISH Network and its suppliers reserve all rights not expressly granted to you. Except as stated above, this license agreement does not grant to you any intellectual property rights in the software provided in your DISH Network receiver(s). If you breach any term or condition of this license agreement, this license agreement will automatically terminate.

5. LEASED EQUIPMENT

A. DISH Network may, from time to time, lease certain Equipment to subscribers. If you elect to lease Equipment from DISH Network, the terms and conditions of the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing such Equipment shall apply, which are in addition to (and without limitation of) the terms and conditions of this Agreement. Unless otherwise specified in such customer agreement(s): (i) such Equipment, except for the satellite antenna, shall at all times remain the sole and exclusive property of DISH Network and we will have the right, in our sole discretion, to provide or replace leased Equipment with new or reconditioned Equipment and to remove, or require the return of, such Equipment upon cancellation or disconnection of your Services for any reason and (ii) we will charge you a monthly equipment rental fee (an “Equipment Rental Fee”) for each leased receiver activated on your account. No leased Equipment provided to you by DISH Network shall be deemed fixtures or part of your realty. Our ownership of such Equipment may be displayed by notice contained on it. You shall have no right to pledge, sell, mortgage, otherwise encumber, give away, remove, relocate, alter or tamper with such Equipment (or any notice of our ownership thereon) at any time. Any reinstallation, return, or change in the location of such Equipment shall be performed by us at our service rates in effect at the time of such service. You shall not attach any electrical or other devices to, or otherwise alter, any such Equipment without our prior written consent. We reserve the right to make such filings as may be determined to be necessary by us in our sole discretion to evidence our ownership rights in such Equipment, and you agree to execute any and all documents as may be so determined to be necessary for us to make such filings. You are responsible for preventing the loss or destruction of leased Equipment and we recommend that such Equipment be covered by your homeowners, renters or other insurance policy.

B. Upon termination of your Services, you must notify our Customer Service Center or call the telephone number set forth in the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing the applicable Equipment to schedule the return of your leased Equipment. If such Equipment is not returned undamaged and in working order, normal wear and tear excepted, certain charges will apply as described in the customer agreement(s) applicable to the lease promotion(s) pursuant to which you are leasing such Equipment. You are responsible for, and agree to pay, any costs of repair, replacement or other costs if you do not return such Equipment undamaged and in working order, normal wear and tear excepted.

C. You shall notify us promptly of any defect in, damage to, or accident involving your leased Equipment. All maintenance and repair of such Equipment shall be performed by us or our designee(s). DISH Network may charge you for any repairs that are necessitated by any damage to, or misuse of, such Equipment.

6. TRANSFER OF ACCOUNT, SERVICES OR EQUIPMENT

DISH Network may sell, assign or transfer your account to a third party without notice to you. You may not assign or transfer your Services without our written consent, which will not be unreasonably withheld. We may, however, refuse to allow you to assign or transfer your Services if you lease your Equipment or if your account has an outstanding balance.

7. LIMITATION OF OUR LIABILITY

A. NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES WILL BE LIABLE FOR ANY INTERRUPTIONS IN SERVICE OR FOR ANY DELAY OR FAILURE TO PERFORM, INCLUDING WITHOUT LIMITATION IF SUCH INTERRUPTION OR DELAY OR FAILURE TO PERFORM ARISES IN CONNECTION WITH THE TERMINATION OR SUSPENSION OF DISH NETWORK'S ACCESS TO ALL OR ANY PORTION OF SERVICES, THE RELOCATION OF ALL OR ANY PORTION OF THE SERVICES TO DIFFERENT SATELLITE(S), A CHANGE IN THE FEATURES AVAILABLE WITH YOUR EQUIPMENT, ANY SOFTWARE OR OTHER DOWNLOADS INITIATED BY US OR ANY ACTS OF GOD, FIRES, EARTHQUAKES, FLOODS, POWER OR TECHNICAL FAILURE, SATELLITE OR UPLINK FAILURE, ACTS OF ANY GOVERNMENTAL BODY OR ANY OTHER CAUSE BEYOND OUR CONTROL.

B. NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES WILL BE LIABLE FOR ANY DAMAGE RESULTING FROM LOSS OF RECORDED MATERIAL OR THE PREVENTION OF RECORDING, INCLUDING WITHOUT LIMITATION ANY LOSS OF PREVENTION OF RECORDING DUE TO ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT.

Appendix

Residential Customer Agreement

C. EXCEPT AS EXPRESSLY PROVIDED TO THE CONTRARY BY APPLICABLE STATE LAW, NEITHER WE NOR OUR THIRD PARTY BILLING AGENTS NOR ANY OF OUR OR THEIR AFFILIATES MAKE ANY WARRANTY, EITHER EXPRESSED OR IMPLIED, REGARDING YOUR DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT OR ANY SERVICES FURNISHED TO YOU. ALL SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED AND EXCLUDED.

D. IN NO EVENT SHALL WE, OUR THIRD PARTY BILLING AGENTS, OR ANY OF OUR OR THEIR AFFILIATES HAVE ANY LIABILITY FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATING TO DISH NETWORK EQUIPMENT OR ANY OTHER EQUIPMENT OR RESULTING FROM OUR FURNISHING OR FAILURE TO FURNISH ANY SERVICES OR EQUIPMENT TO YOU, OR FROM ANY FAULT, FAILURE, DEFICIENCY OR DEFECT IN SERVICES OR EQUIPMENT FURNISHED TO YOU.

E. IT IS YOUR RESPONSIBILITY TO IMPOSE VIEWING RESTRICTIONS ON YOURSELF, MEMBERS OF YOUR FAMILY AND HOUSEHOLD, AND GUESTS, AS YOU DEEM APPROPRIATE. WE, OUR THIRD PARTY BILLING AGENTS, AND OUR AND THEIR AFFILIATES SHALL HAVE NO LIABILITY TO ANYONE DUE TO, OR BASED UPON, THE CONTENT OF ANY OF THE SERVICES FURNISHED TO YOU.

8. WARNING AGAINST PIRACY AND INFRINGEMENT

A. It is a violation of various U.S. federal and state laws to receive any Services, or any portion of such Services, without paying for them. The penalties for violating such laws can include imprisonment and civil damage awards of up to $110,000 per violation.

B. Title 47, Section 605(e)4, United States Code (U.S.C.) makes it a federal crime to modify Equipment to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to $500,000 and imprisonment for five years, or both. Any person who procures Equipment that has been so modified is an accessory to that offense and may be punishable in the same manner. Investigative authority for violations lies with the Federal Bureau of Investigation. Equipment may incorporate copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of such copyright protection technology must be authorized by Macrovision, and is intended for home and other limited pay-per-view uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

9. GENERAL

A. Physical Address/Change of Address. When setting up your DISH Network account, you agree to provide us with the physical street address where your Equipment will be located and your Services will be provided. A post office box does not constitute a physical address and is not sufficient to meet this requirement. You agree to give us prompt notice of your change of name, mailing address, physical address where your Equipment is located, and telephone number. You may do this by notifying our Customer Service Center by telephone or in writing at the phone number or mailing or e-mail address set forth in the first paragraph of this Agreement.

B. Notice. Any notice required or permitted to be given by us under this Agreement may be provided via the mail, on your billing statement, as a bill insert, via broadcast on a television channel, through publication on the website set forth in the first paragraph of this Agreement, by telephone or by any other reasonable means. If we send you notice by mail, on your billing statement or as a bill insert, it will be considered given when deposited in the U.S. Mail, addressed to you at your then-current billing address in our records. If we send you notice via broadcast on a television channel or through publication on the website set forth in the first paragraph of this Agreement, it will be considered given when first broadcast or published. If we send you notice by telephone, it will be considered given when personally delivered to you or when left as a message at your then-current phone number in our records. Unless otherwise specified in this Agreement, any notice required or permitted to be given by you under this Agreement shall be in writing and shall be sent by first class mail addressed to us at the mailing address set forth in the first paragraph of this Agreement, and shall be deemed given when received by us at such mailing address.

C. Credit Checks. You authorize DISH Network to investigate your financial responsibility and creditworthiness, including without limitation acquiring credit reports and histories, and to report any payment defaults to credit reporting agencies. Under the Fair Credit Reporting Act, you have the right to notify DISH Network if you believe we have reported inaccurate information about your account to any consumer reporting agency. Please include the specific item of dispute and why you believe the information reported is in error in any such notice.

D. Personal Information. If you have an on-line account with us, you are fully responsible for maintaining the confidentiality of your password and account username and for all activities that occur under your password and/or account username. You agree to: (i) keep your account username and password confidential and not share them with anyone else, and (ii) immediately notify us of any unauthorized use of your password and/or account username or other breach of security.

E. Applicable Law. This Agreement, including without limitation all matters relating to its validity, construction, performance and enforcement, and any claim, complaint or dispute arising out of or related to this Agreement or Services, shall be governed by the laws and regulations of the State of Colorado without giving effect to its conflict of law provisions. These terms and conditions are subject to amendment, modification or termination if required by such laws or regulations. If any provision in this Agreement is declared to be illegal or in conflict with any law or regulation, that provision shall be modified to the minimum extent necessary to make such provision legal and no longer in conflict with such law or regulation, without affecting the validity of any other provisions.

Appendix Two Color.fm Page 127 Tuesday, July 25, 2006 3:06 PM

F. Third-Party Billing Agents. We may enter into relationships with third parties to provide billing and other services on our behalf, in which case the terms and conditions of this Agreement shall apply to such third parties as applicable under the circumstances. Additional terms and conditions imposed by our third-party billing agents, including without limitation, local telephone companies, may apply. For example (and without limitation), late fees imposed by our third-party billing agents may be administered according to our third-party billing agent's billing procedures and applicable state tariffs and regulations; our third-party billing agents may require you to pay all past due charges for Services, a restart Fee, and/or a prepayment before we reconnect your Services; other services provided by our third-party billing agents, including without limitation, local telephone service, may need to be restored before DISH Network Services can be restored, and a restore fee and deposit may be required to restore third-party billing agent services. Partial payments on third-party billing agent bills may be applied to the balance due for other services billed on your third-party billing agent bill, including without limitation, local telephone service, according to the third-party billing agent's billing procedures and applicable state statutes and regulations. Contact your third-party billing agent for details. Failure to pay all or any part of your third-party billing agent bill may result in disconnection of Services.

G. Remedies Cumulative. It is agreed that the rights and remedies provided under the terms and conditions of this Agreement to DISH Network in case of default or breach by you of this Agreement are cumulative and without prejudice to any other rights and remedies that DISH Network may have by reason of such default or breach by you at law, in equity, under contract or otherwise (all of which are expressly reserved).

H. Other. No salesperson, installer, customer service representative, authorized retailer, or other similarly situated individual is authorized to change the terms and conditions of this Agreement. DISH Network may, however, change the terms and conditions of this Agreement at any time and from time to time in its sole discretion and will notify you if that occurs. The terms and conditions of this Agreement that either are expressly stated to survive or by their nature would logically be expected to survive its expiration or termination shall continue thereafter until fully performed. This Agreement is in addition to any other written agreement(s), if any, between you and DISH Network, including without limitation any installation agreement or customer agreement(s), if any, applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, and except as provided to the contrary herein all such written agreements shall remain in full force and effect. Except as expressly set forth in this Agreement to the contrary, any and all prior DISH Network Residential Customer Agreements are hereby replaced and superseded in their entirety by this Agreement, and such prior DISH Network Residential Customer Agreements shall be of no further force or effect whatsoever. In the event of any conflict or inconsistency between the terms and conditions of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, the terms and conditions of such customer agreement(s) shall be controlling. In the event of any ambiguity between the terms and conditions of this Agreement and any customer agreement(s) applicable to the promotion(s) pursuant to which you are receiving Services and/or Equipment, DISH Network shall have the sole and exclusive authority to interpret and/or make a final determination in its sole discretion concerning any issue arising from such ambiguity.

STAYING LEGAL

Title 47, Section 605(e)4, United States Code (U.S.C.) makes it a federal crime to modify this receiver to enable it to receive encrypted (scrambled) television programming without payment of required subscriptions. Conviction can result in a fine of up to $500,000 and imprisonment for five years, or both. Any owner of this receiver who procures or willfully causes its modification is an accessory to that offense and may be punishable in the same manner. Investigative authority for violations lies with the Federal Bureau of Investigation (FBI).

This product may incorporate copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of such copyright protection technology must be authorized by Macrovision, and is intended for home and other limited pay-per-view uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent No’s 4631603, 4577216, 4819098 are licensed for limited Pay-Per-View only.

FCC COMPLIANCE

⚠ The following text is extracted from Federal Communications Commission (FCC) regulations, as of the publication date of this *Guide*. Contact the FCC (see following) or your library for the complete text of the regulations.

Telephone Communication

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back panel of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant, such as RJ-11. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this

Appendix Two Color.fm Page 128 Tuesday, July 25, 2006 3:06 PM

product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact DISH Network at 1-800-333-DISH (3474). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

There are no user serviceable parts inside.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Compliance Information Statement

EchoStar Technologies Corporation, 94 Inverness Terrace East, Englewood CO., (303) 706-4000, declares that: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Signal Strength Present at the Television

The attenuator provided with the satellite receiver will limit the signal present at your television set to below the FCC signal strength limit of 75.6dBuV. If you choose not to install the provided attenuator, you must ensure that the signal strength present at the TV set does not exceed 75.6dBuV.

Connecting to an Over-the-Air Antenna

In order to receive local broadcast channels, you may wish to install an over-the-air antenna into your TV distribution equipment. When installing the over-the-air antenna, you must be careful to meet certain FCC regulations.

There are many devices that allow you to connect your antenna to your in-home distribution system such as splitters, and amplifiers. The FCC requires that the isolation between the antenna port and the network port of your system meet the following:

- 80dB from 54 MHz to 216 MHz, at least
- 60dB from 216 MHz to 550 MHz and at least
- 55dB from 550 MHz to 806 MHz

Measuring the isolation of a device requires specialized equipment. In most cases, it is easier to purchase a splitter or amplifier with the correctly specified isolation from your local satellite television retailer. The above requirements are extracted from 47CFR15.115. For the complete text please visit WWW.FCC.GOV.

Reference Two Color.fm Page 103 Tuesday, July 25, 2006 3:08 PM

Reference

Troubleshooting and Device Codes

- TROUBLESHOOTING TABLES
- REMOTE CONTROL DEVICE CODES

Reference Two Color.fm Page 104 Tuesday, July 25, 2006 3:08 PM

TROUBLESHOOTING TABLES

Use these tables if you have problems using the system. Look in this section for a description of the problem *before* calling the Customer Service Center. Many problems arise from basic misunderstandings of how the system works, especially when you are just becoming familiar with it. These tables cover many problems, usually with a simple solution for each one. To solve a particular problem, do the following:

1. Review the section in this Guide that relates to the problem.
2. If you cannot find a solution, then find the section in the following tables that relates to the problem.
   - Read the What's Happening column until you find the problem.
   - Read the information in the Possible Reason column.
   - Try each of the suggested solutions in the What to Do column.
3. Sometimes resetting the receiver can fix a minor problem. See *Resetting Your Receiver* on 116.
4. Make sure your TV is tuned to the correct channel or input. Use RECOVER as described on 56.
5. Make sure your remote control has fresh batteries. If you see the Remote Battery Low warning on your TV screen, it's time to change the batteries. Follow the instructions on page 28.
6. Make sure your receiver is connected to an active telephone line. See the instructions on page 38.
7. Check for anything that might be blocking the satellite signal (for example, tree branches, snow, etc.).
8. For more information, call the Customer Service Center at 1-800-333-DISH (3474), or see www.dishnetwork.com or tech.dishnetwork.com.

Note: Before calling the Customer Service Center, have ready the date of purchase and either your customer account number, the receiver conditional access number, or the receiver model number. Display the System Information screen to find these numbers (See Ordering your Programming). Also, write down any error messages that the receiver displays on the television screen.

Reference Two Color.fm Page 105 Tuesday, July 25, 2006 3:08 PM

Message Numbers

Number	Possible Reason	What to Do
001	• There may be a problem with the multi-dish switch.	• Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Run Check Switch as described on page 101. If this does not work, call the Customer Service Center at 1-800-333-DISH (3474) for help.
002	• Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal, or there may be other interference.	• Note the local weather conditions. Remove any snow or other debris which may have collected on the satellite dish. Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the **Point Dish screen** as described on page 101. Consult your installer to re-aim the dish, if necessary, to obtain the strongest possible signal.
003, 004	• The wrong type of coaxial cable may be used in the system, or the cable run length may be too long. Or, there may be a problem with the multi-dish switch.	• Make sure the system uses RG6 coaxial cable; if not, call your dealer or installer. • Check the dish-to-receiver cable run length. If your entire system is DISH Pro, it can be as much as 200 feet. If it is a Legacy system, it should not be more than 100 feet. Check the coaxial cables and their connections to and from the multi-dish switch. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). If this does not work, do the Check Switch test described on page 101.
005	• The receiver may not yet have been electronically linked with the system, via the satellite signal. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	• If you have authorized the receiver, wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. Check that the **Signal Strength** bar in the **Point Dish screen** is green and displays the word **Locked,** as described on page 101. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-333-DISH (3474) for help.
006	• The receiver may not be connected to an active telephone line.	• You *must* connect the receiver to an active telephone connection at all times. If you install two or more receivers, you *must* connect *each* receiver to an active telephone connection at *all* times.
011, 012	• Viewers in specific areas are prohibited from watching certain programs. *For example*, viewers who live close to a particular football stadium may be prohibited from watching football games that are played in that stadium.	• Remember that the program providers specify which programs are “blacked out” for which viewers, *not* DISH Network.
013, 014	• You may have tried to tune to a program on a channel which you have not bought.	• You *must* buy a channel *before* you can tune to a program on that channel. Call the Customer Service Center at 1-800-333-DISH (3474) to buy the channel, or if you believe this message was displayed by mistake. • Sometimes these messages display by mistake. If you subscribe to the channel, reset the receiver (page 100).

Reference Two Color.fm Page 106 Tuesday, July 25, 2006 3:08 PM

Message Numbers

Number	Possible Reason	What to Do
015	• You may have just plugged in the receiver, and it is acquiring the satellite signal. Or, the receiver may have temporarily lost the signal.	• Wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 101. If not, contact your installer to re-aim the satellite dish.
018	• The receiver may not be connected to an active telephone line.	• You *must* connect the receiver to an active telephone connection at all times. If you install two or more receivers, you *must* connect *each* receiver to an active telephone connection at *all* times. • Call the Customer Service Center at 1-800-333-DISH (3474) for help checking the credit limit and/or to get authorization to make a purchase.
022	• The receiver may not yet have been electronically linked with the system, via the satellite signal. The satellite dish may have moved so that it is no longer picking up the satellite signal. The cable connections may have loosened or have moisture inside. There may be an interruption of the satellite signal.	• If you have authorized the receiver, wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 101. If not, contact your installer to re-aim the satellite dish. If you have not authorized the receiver, call the Customer Service Center at 1-800-333-DISH (3474) for help.
026	• The receiver may have temporarily lost the satellite signal.	• Wait a few minutes to see if the message is removed. Make sure that all required cables are in place, and check that all cable connections are tight and dry (for outdoor cables). • Make sure that the satellite dish has a clear line of sight to the satellite. Check whether branches or leaves have grown into the line of sight. • Check that the Signal Strength bar in the Point Dish screen is green and displays the word Locked, as described on page 101. If not, contact your installer to re-aim the satellite dish.
028	• The receiver may need to get new software before you can use it to order Pay-Per-View programs.	• Turn the receiver off. Doing this allows the receiver to “download” new software via the satellite signal. The download may take several minutes; do *not* disturb or unplug the receiver during this time. When the download is done, you will be able to use it to order Pay-Per-View programs.
059	• You may have tried to close an installation menu without having done the Check Switch test.	• If your setup includes a multi-dish switch, you *must* run the Check Switch test as described on page 101.
060	• You may have aimed the satellite dish at one satellite, but selected the option for another satellite on the Point Dish screen.	• Make sure that you have selected the option for the right satellite on the Point Dish screen, as described on page 101. • Make sure that the cable(s) for the satellite you have selected are connected to the LNBF that receives signals from that satellite. Re-aim the satellite dish at the right satellite.
061	• You may have set up the receiver to accept a transmission (a “download”) of the latest operating software via the satellite signal.	• It is *very* important for the receiver to get the latest operating software, so let the receiver do so. The “download” may take several minutes. Do *not* disturb or unplug the receiver during this time.

Reference Two Color.fm Page 107 Tuesday, July 25, 2006 3:08 PM

Message Numbers

Number	Possible Reason	What to Do
074	• The receiver gives you three chances to enter the correct password. If you fail to do so, the receiver "times out" and will not allow you to try again for several minutes.	• Wait a few minutes and then try again to enter the password. **Note:** The "time out" feature is designed to prevent someone from trying password after password until he or she happens to guess the right one and so gains unauthorized access to the receiver.
078, 079, 080	• You may not have connected the receiver to an active telephone line, or the telephone line may be defective.	• Connect the receiver to an active telephone line. Make sure that the telephone line to which you connect the receiver is working properly. **Note:** To be able to order Pay-Per-View programs, you *must* keep the receiver connected to an active telephone line at all times. If your setup includes more than one receiver, this applies to *each* receiver. The receiver uses the telephone line to make toll-free calls, usually in the middle of the night, to send information to the Customer Service Center at 1-800-333-DISH (3474).
093	• You may have set up the receiver to reset itself back to the "factory defaults," *that is*, the settings it had when it was shipped from the factory.	• If you want to reset the receiver to its factory default settings, select the Yes option. If not, select the No option.

Changing Channels

What Is Happening	Possible Reason	What to Do
You enter a desired channel number. The channel changes, but the new channel is not exactly the channel you entered.	• You may have made a mistake entering the channel number, or the channel number you entered may be invalid.	• Carefully try entering again the channel number you want.
You are scanning up or down through the channels, and the receiver is skipping channels that you know you have subscribed to.	• If so, the channel displayed is the closest possible to the channel you entered. • If you entered the number for a channel that you have not subscribed to, the receiver will change to the channel and display a message suggesting that you might want to subscribe to the channel. • If a Favorites List other than **All Chan** is applied, the receiver will skip channels that are not on the applied list. • If you have set up the **Program Guide** to hide adult channels and the receiver is locked, the receiver will skip such channels.	• Select **All Chan** as the active Favorites List. Unlock the receiver so that it does not skip adult channels. If you want to buy a channel, call the Customer Service Center at 1-800-333-DISH (3474).

Reference Two Color.fm Page 108 Tuesday, July 25, 2006 3:08 PM

Remote Control

What Is Happening	Possible Reason	What to Do
You cannot find the remote control.	• N/A	• Use the receiver front panel **Control Buttons** to control the receiver until you find the remote. If the remote control is permanently lost or too damaged to use, call the Customer Service Center to order a replacement.
When you press a button on the remote control, the receiver does not do what you expect.	• The remote control may be missing batteries, the batteries may be incorrectly placed in the remote, or the batteries may be weak or dead. • You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate.	• If the batteries are missing or dead, insert fresh AAA-size batteries. If the remote has fresh batteries, check whether they are placed according to the label diagram. If not, remove them and place correctly. • Make sure you are using Remote Control 1 (2) to control TV1 (TV2) menus.
Your UHF Pro remote control does not work well from far away.	• You may be experiencing interference from objects near your receiver antenna.	• Make sure the UHF antenna is connected to the receiver and not touching anything else. • Vary the tilt angle of the receiver's UHF antenna. Locate the UHF antenna tip away from other electronics equipment or metal surfaces, even if separated by wooden shelving. • Move the receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center. • Place the UHF antenna outside the entertainment center by using a coaxial cable to connect it to the receiver.
When you press the remote control **Power** button to turn the receiver ON, the receiver front panel **Power** light does not light up.	• Other lights are too bright. • Remote control is not operating properly or the batteries are weak or dead. • The receiver power cord is not plugged into a power outlet, or there may be a problem with the power. • The remote control(s) may not be set to the address(es) used by the satellite receiver. • You may be using the wrong remote control (1 or 2) for the menus (TV1 or TV2) you are trying to operate. • If the receiver is in Single Mode, the TV2 indicator will not light.	• Try other remote control buttons to see if the receiver is responding. • Replace the remote batteries with fresh ones. • Check that the receiver power cord is not damaged, and that the plug is inserted correctly into the outlet. • Make sure the remote control(s) are set to the same address(es) used by the satellite receiver. See page page 58 for information on changing the remote control address. • Make sure you are using Remote Control 1 (2) to control TV1 (TV2) menus. • This is normal. No action required or switch to Dual Mode.

Reference Two Color.fm Page 109 Tuesday, July 25, 2006 3:08 PM

Remote Control

What Is Happening	Possible Reason	What to Do
You use an IR extender (not a “mouse tail”), and it does not seem to work.	• The IR sensor on the extender that receives the remote control signals may not be facing the remote control.	• Make sure that the extender that receives the signal from the remote control is facing the right way, so that the IR sensor can receive the remote control signals.
	• The IR cable on the extender that sends the signal to the receiver may not be right in front of the IR sensor on the receiver front panel.	• Make sure that the IR cable on the extender that sends the signal to the receiver is right in front of the IR sensor on the receiver front panel, so that the receiver IR sensor can receive the signals. • If doing the above does not solve the problem, contact the manufacturer of the extenders for assistance. • Use an IR extender only with Remote Control 1 which uses IR signals.
	• You are using Remote Control 2 which does not transmit IR signals.	• Use the correct remote control.

Program Guide or the Browse Banner

What Is Happening	Possible Reason	What to Do
In the Program Guide, some channels have a red background.	• Red means that you have not subscribed to that channel. You *must* subscribe to a channel before you can tune the receiver to it.	• If you want to buy a channel, call the Customer Service Center at 1-800-333-DISH (3474).
You try to display future programs in the Program Guide or Browse Banner, but find you cannot.	• The Program Guide and Browse Banner can display programs scheduled for an extended, but not unlimited time beyond the present.	• Try displaying the Program Guide again later. By that time, it may show programs for the time and date you want.
You try to display programs that have ended in the Program Guide or Browse Banner, but find you cannot.	• The Program Guide and Browse Banner can display only programs that have not yet ended. These features cannot display a time earlier than the present.	• Contact the program providers (for example, the channel or network affiliate that broadcast the program) for details on past programs.
When you are using the Program Guide or Browse Banner, some channels are missing.	• You may have applied a Favorites List other than the list named All Chan.	• You can change the applied Favorites List while using the Program Guide by pressing the remote control Guide button. You can choose another custom Favorites List, the All Chan list, which includes all the channels, or the All Sub list, which includes all subscribed channels.
	• You may have set up the Program Guide so that when the receiver is locked, the Guide hides adult channels	• Unlock the receiver for the Program Guide to display adult channels.

Reference Two Color.fm Page 110 Tuesday, July 25, 2006 3:08 PM

Watching A Program

What Is Happening	Possible Reason	What to Do
The receiver front panel Power light is on, but the TV image: • is black (no picture) • is frozen • has break-ups • has “snow,” • shows small squares of various colors	• The TV set may not be working properly	• Make sure that the TV set is plugged into an electrical outlet. • Make sure the outlet has electrical power. • Use the Recover button (page 69). • Reset the receiver (page 100).
	• The TV may be connected to the wrong input	• Make sure that the TV is turned on and tuned to the correct input. • Make sure that the TV brightness and contrast are adjusted correctly. • Make sure that the TV is connected properly to the receiver. • Make sure that the TV’s text mode and closed captioned features are turned off. • Check that the system has been installed correctly. • Make sure that all required coaxial cables are in place, and check that all cable connectors are tight and dry (for outdoor cables).
	• If the TV and the receiver are working properly, there may be interference with the satellite signal.	• Make sure that the satellite dish has a clear line of sight to the satellite. • Check whether branches or leaves have grown into the line of sight. • Make sure that the satellite dish is aimed at the satellite. Check the strength of the signal using the Point Dish screen, as described on page 101. Consult your installer to re-aim the dish, if necessary, to obtain the maximum possible signal strength. • Note the local weather conditions. Heavy rain, snow, or cloud cover may be interfering with transmission of the satellite signal. Remove any snow or other debris which may have collected on the satellite dish
	• You have selected an HD mode your HDTV does not support.	• Refer to your HDTV user’s guide.
The receiver front panel Power light is on, and there is a picture on the TV screen, but the picture: • has sparkles or is grainy • has a herringbone pattern • lacks color or vertical hold • wobbles • looks “washed out” or fuzzy.	• The TV set may not be working properly.	• Make sure that the TV brightness and contrast are adjusted correctly, and that the TV is working properly.
	• If the receiver is connected to the remote TV using the RF or VHF connections, there may be a strong local broadcast on the same channel, or a channel adjacent to the one to which the TV is tuned.	• Make sure that the TV is connected properly to the receiver.

Reference Two Color.fm Page 111 Tuesday, July 25, 2006 3:08 PM

Watching A Program

What Is Happening	Possible Reason	What to Do
	• There may be interference from other nearby electrical devices (such as radio towers, cellular telephones, computers, microwave ovens, radios, stereos, or TVs).	• Check other nearby electrical devices as possible sources of interference. • Check that all required coaxial cables are in place. • Check for moisture or water leaking into all connections. Dry them out if needed, then seal them with coaxial cable sealant. • Check the dish-to-receiver cable run length; if it is over 100 feet, call your dealer or installer. • Make sure the system is properly grounded.
A “black box” fills almost all of the TV screen.	• You may have turned on the Closed Captioned feature on the TV, and put that feature into Text mode.	• Using the TV remote control and/or menus displayed by the TV (*not* the receiver remote control or the menus displayed by the receiver), turn off the closed captioned feature.
The TV screen is all blue.	• You may have connected the receiver to an input on the TV that is incorrect for the signal output from the receiver.	• Check your TV owner’s manual for the correct TV input to use for the signal output from the receiver. • Reset the receiver (page 100).

Favorites Lists

What Is Happening	Possible Reason	What to Do
You press the remote Guide button while the Program Guide is displayed. You find that you can apply only the All Chan list or the All Sub list.	• If you have not added channels to any custom Favorites List, you will be able to apply only the All Chan list or the All Sub list.	• You *must* add channels to a custom Favorites List *before* you can apply it.
You try to change the All Chan list or the All Sub list. The receiver displays an ERROR message.	• The receiver will not allow you to change the All Chan list or the All Sub list.	• Choose another list to change. **Note**: You can change the All Sub list by changing what channels you buy.
You try to apply an empty Favorites List. The receiver displays an ERROR message.	• The receiver will not allow you to apply an empty list.	• Choose another list to apply, or add at least one channel to the empty list.
A Favorites List does not show channels that you know you have added to it.	• If you have set up the Program Guide to hide adult channels and the receiver is locked, the Favorites List will not show such channels.	• Unlock the receiver for the list to show adult channels.

Reference Two Color.fm Page 112 Tuesday, July 25, 2006 3:08 PM

Timers

What Is Happening	Possible Reason	What to Do
You try to set up an event timer and the receiver displays a message noting that the program is locked.	• You *must* enter the password *before* you can create an event timer for a locked program.	• To be able to set up an event timer for the program, first enter the password.
You try to set up an event timer and the receiver displays a message noting that the program is a Pay-Per-View event.	• You *must* order a Pay-Per-View event *before* you can create an event timer for it.	• To be able to set up an event timer for the event, first order it.
You try to set up an event timer, but the receiver displays an Error message giving you the option to delete an event timer that was set up earlier.	• You already have set up the maximum number of event timers.	• To be able to set up a new event timer, delete one of the event timers you set up earlier.
You set up an event timer, but the receiver does not tune to the channel of the program, or does not record the program.	• You may have set up a Reminder but what you should have set up is an Auto-Tune, VCR, or Ext.	• Remember that a Reminder just reminds you that the program is about to start. An Auto-Tune timer reminds you and tunes the receiver to the program. A VCR timer reminds you, tunes the receiver, and starts the VCR. An Ext. reminds you and then starts recording on an external device.
You set up an event timer for a program that is repeated (such as a regularly scheduled program), but the timer does not operate for a showing of the program.	• You may have set up a timer with an incorrect frequency.	• Remember that a *Once* event timer operates just one time. A *Mon.-Fri.* event timer operates Monday through Friday on the same channel at the same time. A *Daily* event timer does the same, Monday through Sunday. A *Weekly* event timer operates once a week on the same channel at the same time.
You set up an event timer, but the timer does not operate at all.	• You may have several timers set up for the same time.	• Delete a timer.
You stop the operation of an event timer for one showing of a program that is repeated (such as a regularly scheduled program), but the timer operates for the next showing.	• Stopping the event timer applies *only* to the current showing of the program.	• To stop all operations of a repeated event timer, you *must* delete the event timer. **Note**: The receiver deletes a *Once* event timer when it operates.
You edit an *automatic* event timer. The timer does not start or does not end according to the program for which you set the timer.	• Editing an *automatic* event timer *converts* it to a *manual* event timer. Such a timer starts and stops at the times you specify, *not* the start and stop times of any specific program.	• If you want an *automatic* event timer to start and stop according to a specific program, avoid editing that event timer.
You try to set up a *manual* event timer. The receiver displays an Error message.	• You may have tried to set a *manual* event timer with invalid start or stop times.	• Review the rules on start and stop times for *manual* event timers.
The receiver does not display the program name for a *manual* event timer.	• The receiver may not be able to display a program name for a *manual* event timer.	• Use the Program Guide or a printed schedule to find the program name.

Reference Two Color.fm Page 113 Tuesday, July 25, 2006 3:08 PM

Timers

What Is Happening	Possible Reason	What to Do
You set an event timer. The event timer misses the beginning or the end of a program.	• The program may have started a little earlier than scheduled, or it may have run over its scheduled ending time.	• Use the Start 1 min. early option to start any event timer one minute early, except for a Pay-Per-View event. • Use a manual event timer to start any event timer at the times you set yourself, except for a Pay-Per-View event.

Hearing A Program

What Is Happening	Possible Reason	What to Do
The receiver front panel Power light is on and there is a good picture on the TV set, but you do not hear any sound.	• You may have muted the sound, or set the volume so low that you cannot hear it. • The audio connections may not be properly connected. • You have selected Dolby Digital Only when there is no Dolby Digital soundtrack.	• Check the volume level on the TV or audio device. Turn off the mute or turn up the volume, as required. • Check the audio connectors and cables from the receiver to the TV or the sound system. • Check the TV speakers or the sound system. • In the Dolby Digital menu, select Dolby Digital/ PCM for the audio output. If your decoder/ amplifier will not accept Linear PCM digital input, use the analog connections instead.
You hear a foreign language with a program.	• You may have set the receiver to select an alternate audio language. The program may be in a foreign language.	• Use the **Alternate Audio Language** menu to select the language that you prefer.

Caller ID

What Is Happening	Possible Reason	What to Do
Caller ID is not working.	• You do not have Caller ID service from your local phone company. • Your phone line is not connected to the phone jack on the back of the receiver. • You do not have the Caller ID option enabled.	• Verify that Caller ID is a service provided by your local phone company. • Verify that you have connected the phone line to the phone jack on the back of the receiver. • Verify that you have enabled Caller ID (page 75).

Reference Two Color.fm Page 114 Tuesday, July 25, 2006 3:08 PM

Telephone for Voice/Data/FAX

What Is Happening	Possible Reason	What to Do
While you are making a telephone call, you hear “clicks.”	• The receiver may have tried to call the Customer Service Center to send Pay-Per-View purchase information. When the receiver found that the telephone was busy, it automatically disconnected.	• You do not have to do anything. You can always use your telephone line, because the receiver automatically hangs up if it finds the line is busy.
You pick up the telephone to make a call, but you do not hear a dial tone.	• The receiver was calling the Customer Service Center to send Pay-Per-View information. When the receiver found that the telephone was busy, it automatically disconnected.	• Hang up, and then pick up the telephone again to get a dial tone.
Your computer or facsimile (FAX) machine tries to send a FAX or modem transmission, but fails.	• The receiver was calling the Customer Service Center to send Pay-Per-View information. When the receiver found that the telephone was busy, it automatically disconnected. The FAX or modem found that there was no dial tone, and cancelled the transmission.	• Re-send the FAX or modem transmission.
Your computer or FAX machine was receiving a FAX or modem transmission, but an error occurred.	• The receiver may have tried to call the Customer Service Center to send Pay-Per-View purchase information during the FAX or modem call. When the receiver found that the telephone was busy, it automatically disconnected. This generated “clicks” that caused an error in the FAX or modem transmission.	• Have the sender resend the FAX or modem transmission.

Parental Controls

What Is Happening	Possible Reason	What to Do
You set a lock (*for example*, a lock on programs by ratings), but the lock does not take effect.	• You may not have locked the receiver.	• You *must* lock the receiver to apply any lock that you have set.
You forgot the password, so that you are unable to unlock the receiver.	• N/A	• Call the Customer Service Center at 1-800-333-DISH (3474. You *must* provide the following information: (1) your name; (2) your address; (3) your telephone number;(4) and the receiver serial identification number.

Reference Two Color.fm Page 115 Tuesday, July 25, 2006 3:08 PM

Buying a Pay-Per-View Program

What Is Happening	Possible Reason	What to Do
Someone orders a Pay-Per-View program without your permission.	• You may have been away from the receiver, and someone else used it.	• Lock the purchase of Pay-Per-View programs. *Remember that you are responsible for all Pay-Per-View purchases, whether or not you authorize such purchases*. If you lock Pay-Per-View purchases, then anyone who wants to order a Pay-Per-View program *must* enter the password.
You find that you are not able to order a Pay-Per-View program.	• The receiver may not be connected to an active telephone line.	• You *must* connect the receiver to an active telephone connection at all times. If you install two or more receivers, you *must* connect *each* receiver to an active telephone connection at *all* times.
You find that you are not able to cancel a Pay-Per-View program.	• You ordered a Pay-Per-View program, and then decided not to watch it.	• You *cannot* cancel an order for a Pay-Per-View program, whether it was just ordered or ordered earlier.
Your setup includes more than one receiver. You order a Pay-Per-View program, but it does not appear via all of the receivers.	• You ordered a Pay-Per-View program, and want it to be available via all the receivers in your setup.	• If you want to watch a Pay-Per-View program on TVs connected to up to six receivers, you must *order* the program for *each* receiver but you only *pay* for the program *once*.

Menus

What Is Happening	Possible Reason	What to Do
You were using a menu, and it suddenly closed.	• The receiver has a time-out feature that closes any menu after several minutes of no activity. This will discard any changes you have made, but otherwise does no harm to the receiver.	• Start over again.

Reference Two Color.fm Page 116 Tuesday, July 25, 2006 3:08 PM

REMOTE CONTROL DEVICE CODES

These tables contain the manufacturer codes for programming the remote to control your TV, VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your device brand is not listed or if the codes do not work, the remote may not control your device. In some cases, codes may operate some but not all buttons shown in this guide.

TV Codes

Programming in AUX mode: In most cases use these codes to program in TV mode; however, if programming in AUX mode, press 0 before entering the TV code.

A Mark 670
Action 662
Admiral 521 605 668 669 675
Aiko 727
Aiwa 751
Akai 570 573 659 660
A-Mark 620
Amtron 657
Anam National 509 541 620 651 657 661 663 698
AOC 505 506 519 520 573 620 627 652 653 654 659 664 665 670 672
Apex 743 744 745 757
Archer 620
Audiovox 620 657 662 672
Bell & Howell 590 669 675
Broksonic 562 659 661 748 752
Capehart 519 627
Citizen 506 516 523 524 525 526 590 652 654 657 658 680 727
Classic 659
Colortyme 573 627 652 654 660 667 668 671 674 679
Contec/Cony 541 655 657 661 662 726
Craig 536 541 657 661 662 666 667 694
Crown 526 536 657 666 670
Curtis Mathes 506 516 526 573 590 641 645 650 652 654 658 659 660 664 665 667 668 670 674 680 703 708
Daewoo 505 524 526 529 530 531 573 652 653 654 658 659 663 664 665 670 672 674 684 698 719 727
Daytron 526 627 652 654 658 665 670 672
Dell 772 773 774
Dimensia 645 650
DISH Network 742 763
Dixi 566 620
Dumont 501 627 652
Echostar 722
Electrohome 526 573 651 652 654 656 659 660 665 670 709 728
Emerson 526 534 536 541 573 590 627 636 642 648 652 654 655 657 658 659 660 661 662 665 666 667 669 670 677 679 682 692 696 699 720
Envision 506 573 652 654 660 664
Fisher 542 590 683
Fujitsu 534 682 694
Funai 534 541 657 661 662 677 682 694
GE 508 509 543 544 630 645 646 650 651 652 654 659 661 663 665 667 668 670 673 676 690 691 698 701 715 716 725 728 742 763
Goldstar 505 523 526 545 546 566 573 652 653 654 655 656 658 659 660 664 665 670 671 693 730 747
Gradiente 660 671
Granada 627 670 671
Grundig 670 673
Hallmark 627 652 654 659
Harmon/Kardon 561 659
Hinari 534
Hisense 759
Hitachi 523 526 548 549 553 554 555 585 597 626 636 638 643 648 652 654 655 665 668 669 670 672 673 702 718 726
Infinity 566 671
JBL 566 671
JC Penney 505 506 516 525 526 543 546 631 645 646 650 652 653 654 658 659 664 667 668 670 673 676 680 690 691 701 725 726 728 730
Jensen 556 573 652 654 660
JVC 508 557 559 642 649 655 667 673 676 726 735 736 737
Kawasho 548 561 573 652 654 664
Kenwood 506 573 652 654 656 659 660 664 679
Kloss Novabeam 657 663 698 723 724
Konka 753
KTV 526 541 573 657 658 661 662 664 665 670 696
Lloyds 627 679
Loewe 566
Logik 675
Luxman 523 652 654
LXI 563 566 590 595 617 631 635 645 646 650 654 659 668 683 691 701 725
Magnasonic 573 659 660 669 672 677
Magnavox 506 520 525 536 566 567 568 573 610 652 654 656 659 660 664 665 666 669 671 673 674 677 723 724 729 762
Majestic 675
Marantz 506 566 573 652 654 660 664 665 671
Megatron 627 654
Memorex 590 627 653 654 659 675 720
MGA 504 505 506 542 571 573 627 652 653 654 656 660 728
Mitsui 769
Mitsubishi 504 505 542 570 571 572 573 597 623 627 652 653 654 656 659 660 664 665 670 671 705 728
Montgomery Ward 675
Motorola 521 605 651
MTC 505 506 516 523 573 627 652 653 654 659 664 667 672 680
Multitech 657
NAD 502 617 627 631 635 637 654
National 509
NEC 505 506 507 517 523 573 627 651 652 653 654 660 664 665 679 731 732
Nikkai 612
Nikko 654 672 727
Onwa 541 657 661
Optimus 637
Optonica 521 605 607
Orion 694
Osaki 612
Panasonic 508 509 510 512 566 644 651 662 663 668 672 673 676 685 689 698 700 716 734 747 761 765
Philco 505 506 525 536 568 573 610 651 652 653 654 655 656 659 660 664 665 666 669 671 672 674 677 723 724 729
Philips 525 566 651 652 655 656 671 690 723 724 729 770
Pioneer 502 548 576 636 637 648 652 654 663 665 708
Portland 505 526 573 652 654 658 659 664 665 670 727
Price Club 680
Prism 676
Proscan 645 646 650 668 691 725 742 763
Proton 513 519 526 536 585 627 652 654 655 659 660 665 666 668 670
Quasar 508 509 651 663 673 676 698 700 747
Radio Shack 526 541 607 612 645 661 662 663 668 670 698
Radio Shack/Realistic 590 607 650 652 654 655 657 658 683 730
RCA 503 505 548 630 633 634 636 641 645 646 648 650 651 652 653 654 656 661 663 665 667 668 670 691 698 701 708 715 716 725 742 763
Realistic 590 645
Runco 501
Sampo 506 519 652 654 658 663 664 665 698 730 746
Samsung 505 506 516 523 526 566 573 612 627 647 652 653 654 655 656 658 659 664 665 667 669 670 679 680 704 717 730 738 755
Sansui 754
Sanyo 542 590 652 683
SBR 566
Schneider 566
Scott 526 534 541 600 652 654 655 657 661 662 665 670 677 682 696 701
Sears 523 534 542 563 590 595 601 604 617 627 631 635 645 646 650 652 654 656 659 661 668 670 682 683 688 691 703 725 726
Sharp 521 526 585 605 607 628 629 652 654 655 658 669 670 674 679 739 740 741
Signature 675
Solavox 612
Sony 500 578 640 670 690 758
Soundesign 525 536 541 627 652 654 657 659 661 665 666 682
Starlite 657
Supra 523
Sylvania 506 525 536 566 568 569 573 600 610 652 654 656 659 660 664 665 666 671 672 674 677 723 724 729 733 756 764
Symphonic 632 657 662 677 692 694
Tandy 521 605
Tatung 509 651 663 698
Technics 508 673 676
Techwood 523 573 652 654 660 676

Reference Two Color.fm Page 117 Tuesday, July 25, 2006 3:08 PM

Teknika 504 505 512 516 523 524 525 526 534 536 541 573 644 652 653 654 655 657 658 661 662 664 665 666 670 672 675 680 682 685 726 727
Telefunken 679
Toshiba 516 590 617 631 635 667 680 683 688 750 771
Totevision 526 658 668
Ultra 672
Universal 543 690
Vector Research 506
Video Concepts 570 661
Viewsonic 760
Wards 536 573 607 645 650 652 653 654 656 659 664 665 666 667 668 669 674 675 677 682 690 715 723 724 729
White Westinghouse 659 664 670 672 674
Yamaha 505 506 573 652 653 654 656 664 666 672 679
Zenith 501 520 639 652 672 675 693 747

VCR Codes

Programming in AUX mode: In most cases use these codes to program in VCR mode; however, if programming in AUX mode, press 1 before entering the VCR code.

Aiwa 588 622 623
Akai 513 514 515 516 517 518 520 568 682
Alba 546
Amstrad 588
ASA 556
Audiovox 676
Bell & Howell 581
Broksonic 559 748
Bush 589
Calix 676
Canon 554 678 679
Capehart 546
CCE 681
Citizen 534 591 592 594 675 676 677
Colortyme 592
Craig 591 608 675 676 681 685
CurtisMathes 554 592 594 605 607 675 677 678 679 683
Daewoo 506 534 546 547 559 588
Daytron 546
Denon 686
Dimensia 607
Dumont 549
Electrohome 512 676
Emerson 505 506 508 509 511 512 534 559 568 588 590 618 676 678
Finlandia 549
Finlux 549 556 588
Fisher 548 549 581 584 588 608 610
Fuji 678
Funai 588
Garrard 588
GE 550 551 552 554 572 591 605 607 675 678 679
GoVideo 557 558 620 685
Goldstar 592 594 676 747
Goodmans 585 589
Gradiente 588
Granada 549 581
Grundig 556
Harmon/Kardon 568 592
Harwood 681
Hinari 589
Hitachi 536 538 539 540 588 595 597 680 682 686
ITT 518
JCPenney 554 581 591 592 594 595 600 674 675 676 678 679 680 681 685 686
Jensen 595 680 682
JVC 561 562 563 581 592 594 600 674 682 686
Kenwood 562 581 592 594 600 674 677 682 683
KLH 681
Kodak 676 678
Lloyds 683
Logik 589 681 685
Luxor 518
LXI 676
Magnasonic 685
Magnavox 527 533 554 556 678 679 685
Marantz 554 556 581 585 592 594 600 602 674 677 678 683
Matsushita 678
Memorex 507 533 549 554 566 581 585 588 608 675 676 678 686
MGA 512 567 568
Minolta 595 680 686
Mitsubishi 512 562 567 568 570 571 595 680
Motorola 678
MTC 544 588 675 685
Multitech 579 588 675 677 681
NAD 573
NEC 562 581 592 594 600 602 674 677 682 683
Nikko 676
Noblex 675
Olympus 678
Optimus 676
Optonica 585
Orion 506
Panasonic 523 554 598 614 628 633 678 679 685 747
Pentax 592 595 677 680 683 686
Pentex Research 594
Perdio 588
Philco 554 678 679 686
Philips 554 556 585 678
Pioneer 562 573 574 575 576 600 674 680
Portland 546 677
Proscan 605 607
Proton 685
Quasar 554 678 679 747
Radio Shack 512 607 608 610
Radio Shack/Realistic 581 584 588 608 675 676 678 679
Radix 676
RCA 518 525 527 528 591 595 605 607 615 631 649 675 678 680 686
Realistic 534 549 554 581 584 585 588 608 675 678 679
Ricoh 502
Runco 533
Saisho 506
Salora 567 581
Samsung 515 517 534 579 591 675 755
Sansui 544 562 600 674 682 685
Sanyo 549 581 582 583 608 675
SBR 556
Schneider 589
Scott 508 534 559 590
Sears 548 549 581 584 595 608 610 676 678 680 683 686
Sentra 546
Sharp 512 585 607 625
Shintom 589 595 681 685
Singer 678 681 685
Sony 500 501 502 504 768
STS 678
Sylvania 554 556 567 588 678 679 756
Symphonic 588 594 683
Tandy 581 588
Tashiko 588 676
Tatung 594 682
Teac 588 594 682
Technics 554 633 678
Teknika 554 588 676 678
Toshiba 534 535 567 584 590 680
Totevision 591 675 676
Unitech 675
Vector Research 534 592 600 674 677 683
Video Concepts 534 568 592 600 674 677 683
Wards 534 588 595 608 675 676 678 680 681
XR-1000 588 678 681
Yamaha 581 592 594 600 674 682 683
Zenith 500 501 533 747

Tuner/Amplifier Codes

Programming in AUX mode: Press 2 before entering the tuner/amplifier code.

Aiwa 636 641 656 687 718 720 724 725 726
Bose 761
Carver 653
Citizen 709
Curtis Mathes 734
Denon 647 674 757 758 759 760 762
Fisher 653 741
GE 711
Goldstar 677 690
Harmon/Kardon 640 672 751
Hitachi 717 754
JBL 640
JVC 637 683 703 725
Kenwood 649 676 691 726 728 745
Luxman 752
Magnavox 654 705 740
Marantz 651 740 742 743 764
NAD 739
Nakamichi 671 748 750
NEC 716 739
Onkyo 642 660 662 678
Optimus 648 664 734 744 749
Panasonic 643 644 652 742 746 764
Pioneer 658 667 668 679 702 734
Proton 654 705
Quasar 652 742 746 764
Radio Shack 744
RCA 635 638 704 727
Sansui 753
Sanyo 741
Sharp 712 713 714 715 749
Sherwood 646 670 736 738 744
Sony 639 645 650 687 728 729 730
Soundmatters 763
Teac 684 737
Technics 643 644 652 742 746 764
Toshiba 710
Yamaha 663 730 731 732 733 745 747

Reference Two Color.fm Page 118 Tuesday, July 25, 2006 3:08 PM

DVD Player Codes

Programming in AUX mode: In most cases use these codes to program in VCR mode; however, if programming in AUX mode, press 1 before entering the VCR code.

Aiwa 634 694 751
Alpine 653
Apex 654 655 743 744 757
Bose 758
Broksonic 656 752
Clarion 696
Classic 695
Daewoo 657
Denon 697 698 699 700
Emerson 658 701
Fisher 659
Funai 658
GE 702 703
Go Video 692 693
GPX 704
Hitachi 632 635 660 705 706 707
JVC 636 689 708 711
Kenwood 761
Konka 637 638 753
Koss 745
Lasonic 762
Magnasonic 762
Magnavox 626 661
Memorex 709
Mintek 710
Mitsubishi 629 767
NAD 701
Nakamichi 763
Norcent 712
Onkyo 713
Oritron 723
Panasonic 639 662 663 714 715 716 717 734 765
Philips 640 641 766
Pioneer 665 718 719
Proscan 720
Qwestar 721 723
RCA 627 650 666 690 742 749
Sampo 724
Samsung 651 652 667 668 691 740 741
Sansui 725 754
Sanyo 643 726
Sharp 669 727 746
Sherwood 728
Sony 617 644 645 670 671 729 730 731 768
Sylvania 658 764
Teac 732
Technics 733
Techwood 664
Toshiba 616 646 647 672 735 736 750
Yamaha 737 738 739
Zenith 648 673

TV/DVD Combo Codes

Programming for combination equipment: Program the remote control in TV mode and then in VCR (or AUX - press 1 before entering the DVD code) mode.

Aiwa 751
Apex 757
Broksonic 752
Konka 753
Panasonic 734 765
RCA 749
Sansui 754
Sylvania 764
Toshiba 750

TV/VCR Combo Codes

Programming for combination equipment: Program the remote control in TV mode and then in VCR mode.

Broksonic 748
Goldstar 747
Panasonic 747
Quasar 747
Samsung 755
Sylvania 756
Zenith 747

DVD/VCR Combo Codes

Programming for combination equipment: Use VCR mode to control VCR and DVD functions; however, if programming in AUX mode, press 1 before entering the DVD/VCR code.

Go Video 692 693
JVC 689
RCA 690
Samsung 667 691
Sony 768

222_Inside Back.fm Page 1 Tuesday, July 25, 2006 2:14 PM

Receiver Information

Write the following information in the spaces provided below. You may need to provide this information if you call the Service Center. To get the Conditional Access Numbers, display the **Important System Information** menu (see *Ordering Your Program Packages*).

Purchase Location Name:	
Purchase Location Telephone Number:	
Receiver Serial Number:	
Receiver Conditional Access Number	
Smart Card Conditional Access Number:	

Remote Control Settings

	Remote Control 1	Remote Control 2
Remote Control Address (SAT Mode)		
TV Code (TV Mode)		
VCR Code (VCR Mode)		
Auxiliary Code (AUX Mode)		

TV Input/Channel Settings

	TV1	TV2
TV Input/Channel		